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- Intel® Celeron™ Processor at 366MHz
- 15" XGA Active Matrix Display
- 32MB SDRAM
- 4.8GB[4] Ultra ATA Hard Drive
- Removable Combo 24X Max[7] Variable CD-ROM and Floppy Drive
- 2X AGP 4MB ATI RAGE™ LT Pro 3D Video
- 3D Surround Sound with Wavetable
- Lithium Ion Battery
- Microsoft® Works Suite 99 with Money 99 Basic
- McAfee VirusScan
- Microsoft Windows® 98 Second Edition
- Touchpad
- 3-Year Limited Warranty[3]

★ *Upgrade to 64MB SDRAM, add $99.*

★ *Upgrade to a 4X[10] DVD-ROM Drive, add $129.*

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Business Lease[15]: $67/Mo., 36 Mos.

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DELL DIMENSION XPS T500

High Performance, High Value

- Pentium® III Processor at 500MHz
- Mini-Tower Model
- 96MB 100MHz SDRAM
- 6.4GB[4] Ultra ATA Hard Drive
- 17" (16.0" vis, .26dp) M780 Monitor
- 8MB ATI XPERT 98D 3D AGP Graphics
- 40X Max[5] Variable CD-ROM Drive
- Yamaha XG 64V Wavetable Sound
- Microsoft® Office 2000 Small Business plus Bookshelf 2000; McAfee VirusScan
- Microsoft Windows® 98 Second Edition
- MS® IntelliMouse®

★ *Upgrade to a NEW 9.1GB[4] Ultra ATA Hard Drive (7200 RPM), add $29.*

$1499

Business Lease[15]: $50/Mo., 36 Mos.

E•VALUE CODE: 05618-590714

DELL DIMENSION® V400c

Value-Optimized Desktop

- Intel Celeron Processor at 400MHz
- Mini-Tower Model
- 32MB SDRAM
- 4.3GB[4] Ultra ATA Hard Drive
- 15" (13.8" vis) 800F Monitor
- 8MB ATI 3D AGP Graphics
- 40X Max[5] Variable CD-ROM Drive
- Intel 10/100 Ethernet Controller
- Microsoft Works Suite 99 with Money 99 Basic; McAfee VirusScan
- Microsoft Windows 98 Second Edition
- Logitech First Mouse+ Wheel (PS/2v)

★ *Upgrade to 64MB SDRAM, add $49.*

$899

Business Lease[15]: $30/Mo., 36 Mos.

E•VALUE CODE: 05618-590708

Common features: Perform Asset Tracking and Remote Diagnostics with Dell OpenManage™ IT Assistant ◆ 3Com® Fast EtherLink™ XL 10/100MB NIC ◆ Long Product Lifecycles for Network Stability ◆ 24-Hour Toll-free Telephone and Online Technical Support

DELL OPTIPLEX GX1 450M

Network-Optimized Desktop

- Pentium III Processor at 450MHz
- Tool-Free Opti-Frame™ Midsize Desktop Chassis
- 64MB 100MHz SDRAM
- 8.4GB[4] SMART Ultra ATA Hard Drive
- 17" (16.0" vis, .27dp) M770 Monitor
- 4MB ATI RAGE™ Pro AGP Graphics
- 40X Max[5] Variable CD-ROM Drive
- Sound Blaster Pro Compatible Sound
- Microsoft Windows NT® Workstation 4.0
- Dell QuietKey Keyboard
- MS IntelliMouse
- 3-Year Next-Business-Day On-site[3] Service

$1599

Business Lease[15]: $54/Mo., 36 Mos.

E•VALUE CODE: 05618-390715

DELL OPTIPLEX® G1 400L

Network-Optimized Desktop

- Intel Celeron Processor at 400MHz
- Tool-Free Opti-Frame Low-Profile Chassis
- 32MB SDRAM
- 4.3GB[4] SMART Ultra ATA Hard Drive
- 15" (13.8" vis) 800F Monitor
- 2MB ATI RAGE IIc AGP Graphics
- Microsoft Windows NT Workstation 4.0
- Dell QuietKey Keyboard
- Dell System Mouse
- 3-Year Next-Business-Day On-site[3] Service

★ *Upgrade to 64MB SDRAM, add $49.*

★ *Upgrade to a 6.4GB[4] Ultra ATA Hard Drive, add $29.*

$999

Business Lease[15]: $33/Mo., 36 Mos.

E•VALUE CODE: 05618-390709

DELL DIMENSION DESKTOPS FOR HOME

Common features: 512KB Integrated L2 Cache (128KB on Intel Celeron Processor-based Systems) ◆ Trial Offer ConnectDirect℠ Internet Access[14] ◆ 3.5" Floppy Disk Drive ◆ Two USB Ports ◆ MS Works Suite 99 with Money 99 Basic ◆ McAfee VirusScan 4.02 ◆ MS Windows 98, Second Edition ◆ Dell QuietKey Keyboard ◆ 3-Year Limited Warranty[2] ◆ 1-Year At-home[3] Service ◆ Power Game Pack[22] (Pentium III Systems Only) **Upgrades:** 3-Year At-home[3] Service, add $99 ◆ HP DeskJet® 882c, add $299

NEW DELL DIMENSION XPS T550 PENTIUM III PROCESSOR AT 550MHz

- 128MB 100MHz SDRAM
- 20.4GB[4] Ultra ATA Hard Drive
- 19" (18.0" vis) P990 Trinitron Monitor
- *NEW* 32MB Diamond Viper 770D nVidia AGP Graphics
- *NEW* 6X Max[10] Variable DVD-ROM Drive and Decoder Card with TV Out
- SoundBlaster Live! Value 512V Sound
- ACS-495 Dolby Surround Sound Speakers with Subwoofer
- 3Com USR v.90[11] PCI WinModem
- 250MB Iomega Zip BUILT-IN Drive
- MS IntelliMouse

$2799

Personal Lease[16]: $105/Mo., 36 Mos.[17]

E•VALUE CODE: 05618-500727m

NEW DELL DIMENSION XPS T550 PENTIUM III PROCESSOR AT 550MHz

- 128MB 100MHz SDRAM
- 9.1GB[4] Ultra ATA Hard Drive
- 17" (16.0" vis, .26dp) M780 Monitor
- *NEW* 16MB 3DFX Voodoo3 3000D AGP Graphics Card
- *NEW* 6X Max[10] Variable DVD-ROM Drive
- Yamaha XG 64V Wavetable Sound
- harman/kardon HK-195 Speakers
- *NEW* v.90[11] PCI DataFax Modem
- Logitech MouseMan® Wheel

$1899

Personal Lease[16]: $72/Mo., 36 Mos.

E•VALUE CODE: 05618-500718m

DELL DIMENSION XPS T450 PENTIUM III PROCESSOR AT 450MHz

- 96MB 100MHz SDRAM
- 6.4GB[4] Ultra ATA Hard Drive
- 17" (16.0" vis, .26dp) M780 Monitor
- 8MB ATI XPERT 98D 3D AGP Graphics Card
- 40X Max[5] Variable CD-ROM Drive
- Yamaha XG 64V Wavetable Sound
- harman/kardon HK-195 Speakers
- *NEW* v.90[11] PCI DataFax Modem
- 100MB Iomega Zip BUILT-IN Drive
- MS IntelliMouse

$1399

Personal Lease[16]: $53/Mo., 36 Mos.

E•VALUE CODE: 05618-500713

DELL DIMENSION V400c INTEL CELERON PROCESSOR AT 400MHz

- 32MB SDRAM
- 4.3GB[4] Ultra ATA Hard Drive
- 15" (13.8" vis) 800F Monitor
- ATI 8MB 3D AGP Graphics
- 40X Max[5] Variable CD-ROM Drive
- Yamaha XG 64V Wavetable Sound
- harman/kardon HK-195 Speakers
- *NEW* v.90[11] PCI DataFax Modem
- Logitech First Mouse+ Wheel (PS/2v)

★ ***Dell Customized Upgrade, add $159.*** *64MB SDRAM, 6.4GB[4] Hard Drive, 17" (16.0" vis, .26dp) M780 Monitor (E•Value Code: 05618-500710)*

$899

Personal Lease[16]: $35/Mo., 36 Mos.

E•VALUE CODE: 05618-500708

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- Encarta Encyclopedia 99
- Works 4.5a
- Works Calendar
- Graphics Studio Greetings
- Expedia Streets 98

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- Excel 2000
- Publisher 2000
- Outlook 2000
- Small Business Tools

Microsoft Office 2000 Pro Includes:

- Same as MS Office 2000 Small Business, plus:
- PowerPoint 2000
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- Remote Client Manageability Support via DMI 2.0; WuOL Capable
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- 3-Year Next-Business-Day On-site[3] Service
- 7x24 Dedicated Workstation Hardware Telephone and Online Technical Support

$3379

Business Lease[15]: $113/Mo., 36 Mos.

E•VALUE CODE: 05618-490733

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DELL POWEREDGE 2300 SERVER (RAID 5 CONFIGURATION)

Workgroup Server

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- 128MB 100MHz ECC SDRAM
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- Ultra-2/LVD PowerEdge Expandable RAID Controller 2/Single-Channel
- Integrated Ultra-2/LVD and Ultra/Narrow SCSI Controllers
- 6 Expansion Slots: 4 PCI, 2 PCI/ISA
- 6-1" Hard Drive Bays
- 4 Media Bays: 3-5.25" and 1-3.5"

★ *APC Smart-UPS 700W Power Supply, add $369.*

$4399

Business Lease[15]: $147/Mo., 36 Mos.

E•VALUE CODE: 05618-290743

DELL POWEREDGE 1300 SERVER (DUAL PROCESSOR/RAID CAPABLE)

Entry-Level Server

- Pentium II Processor at 400MHz
- 64MB 100MHz ECC SDRAM
- 4GB[4] Ultra-2/LVD SCSI Hard Drive
- Integrated PCI Ultra-2/LVD SCSI Controller
- 6 Expansion Slots: 5 PCI, 1 PCI/ISA
- 4 Hard Drive Bays: 2-1.6" and 2-1"
- 3-5.25" Media Bays

★ *Microsoft Windows NT Server 4.0 (10 Client Access Licenses), add $799.*

★ *Upgrade to a 9GB[4] Ultra-2/LVD SCSI Hard Drive, add $100.*

$1649

Business Lease[15]: $55/Mo., 36 Mos.

E•VALUE CODE: 05618-290716

DELL NOTEBOOKS

Common features: 3D Surround Sound with Wavetable ◆ Lithium Ion Battery ◆ Touchpad ◆ HyperCool™ Thermal Management Solution ◆ StrikeZone™ Shock Absorber (Not Available on Inspiron™ 3500) ◆ Ask about Our *FREE* Microsoft Windows 98 Second Edition Upgrade ◆ 3-Year Limited Warranty[2] (Inspiron Systems Only) ◆ McAfee VirusScan 4.02 (Not Available on Latitude® Systems)

DELL INSPIRON 7000

Desktop Features, Notebook Convenience

- *NEW* Pentium II Processor at 400MHz
- 15" XGA Active Matrix Display
- 96MB SDRAM
- 14GB[4] Ultra ATA Hard Drive
- Removable Combo 4X[10] DVD-ROM and Floppy Drive
- 2X AGP 8MB ATI RAGE LT Pro 3D Video
- 56K Capable[11] Gold Card Global Modem
- Microsoft Office 2000 Small Business
- Microsoft Windows 98 Second Edition
- Custom Leather Case

★ *Upgrade to 128MB SDRAM, add $199.*

$3579

Business Lease[15]: $120/Mo., 36 Mos.

E•VALUE CODE: 05618-890735

DELL INSPIRON 7000

Desktop Features, Notebook Convenience

- Intel Celeron Processor at 366MHz
- 15" XGA Active Matrix Display
- 32MB SDRAM
- 4.8GB[4] Ultra ATA Hard Drive
- Removable Combo 24X Max[7] Variable CD-ROM and Floppy Drive
- 2X AGP 4MB ATI RAGE LT Pro 3D Video
- Microsoft Works Suite 99 with Money 99 Basic
- Microsoft Windows 98 Second Edition

★ *Upgrade to a 6.4GB[4] Ultra ATA Hard Drive, add $99.*

$1999

Business Lease[15]: $67/Mo., 36 Mos.

E•VALUE CODE: 05618-890719

NEW DELL LATITUDE CPt

Network-Optimized Notebook

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- 64MB SDRAM (512MB Max[13])
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- Modular 24X Max[7] Variable CD-ROM Drive
- Modular Floppy Drive
- MagicMedia™ 256ZX
- Microsoft Windows NT Workstation 4.0
- 1-Year Next-Business-Day On-site[3] Service

★ *Upgrade to 96MB SDRAM, add $99.*

★ *Upgrade to a 6.4GB[4] Ultra ATA Hard Drive, add $99.*

$1899

Business Lease[15]: $64/Mo., 36 Mos.

E•VALUE CODE: 05618-790718

DELL INSPIRON 3500

Light Weight, Light Price

- Intel Celeron Processor at 366MHz
- 14.1" XGA Active Matrix Display
- 32MB SDRAM
- 4.8GB[4] Ultra ATA Hard Drive
- Modular 24X Max[7] Variable CD-ROM and Floppy Drive
- NeoMagic MediaMagic 256AV AGP Video
- Microsoft Works Suite 99 with Money 99 Basic
- Microsoft Windows 98 Second Edition

★ *Upgrade to 64MB SDRAM, add $99.*

$1799

Business Lease[15]: $60/Mo., 36 Mos.

E•VALUE CODE: 05618-890717

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- 17" (16.0" viewable, .26dp) M780 Monitor
- 8MB ATI XPERT 98D 3D AGP Graphics Card
- 40X Max[5] Variable CD-ROM Drive
- Yamaha XG 64V Wavetable Sound
- harman/kardon HK-195 Speakers
- V.90[11] PCI DataFax Modem
- 100MB Iomega Zip BUILT-IN Drive
- Microsoft® Office 2000 Small Business plus Bookshelf 2000; McAfee VirusScan
- Microsoft Windows® 98 Second Edition
- Dell QuietKey® Keyboard
- MS® IntelliMouse®
- 3-Year Limited Warranty[2]
- 1-Year Next-Business-Day On-site[3] Service

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Business Lease[15]: $60/Mo., 36 Mos.

E•VALUE CODE: 05616-590717



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DELL® INSPIRON™[13] 7000 A400LT
PENTIUM® II PROCESSOR AT 400MHz

Desktop Features, Notebook Convenience

- 15" XGA Active Matrix Display
- 64MB SDRAM (384MB Max[13])
- 6.4GB[4] Ultra ATA Hard Drive
- Removable Combo 24X Max[7] Variable CD-ROM and Floppy Drive
- 2X AGP 8MB ATI RAGE LT Pro 3D Video
- 3D Surround Sound with Wavetable
- Lithium Ion Battery
- Internal 56K Capable[11] v.90 Fax Modem with Trial Offer ConnectDirect℠ Internet Access[14]
- MS® Works Suite 99 with Money 99 Basic
- MS Windows® 98 Second Edition
- Deluxe Nylon Case
- McAfee VirusScan 4.02
- Inspiron Setup Video
- 3-Year Limited Warranty[2]

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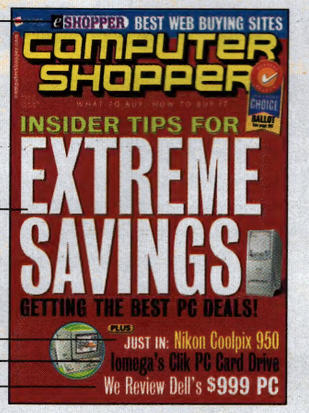
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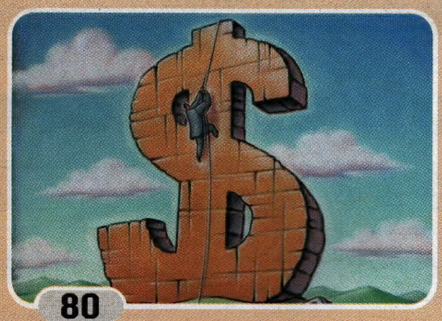
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COMPUTER SHOPPER

AUGUST 1999 • Volume 19 • Number 8 • Issue 233

Shopper Exclusive! Price Update Web Page

Go to www.csprices.com for weekly price updates on all systems and notebooks reviewed in our current issue. Updates from July 20 to August 24.



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Don't make another buying decision until you read "Shop Right, Save a Bundle," packed with tips and insider secrets to help you garner big savings. Then finish off your prepurchase research with our regular lineup of advice aimed at making you a smart shopper.

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Use our informative listing of e-commerce sites as your Yellow Pages for online buying. Also, our e-Shopper feature will get you up to speed on shopping bots and how to make them work for you. In the news: getting paid to shop online, electronic car sales, new music on the Web, and more.

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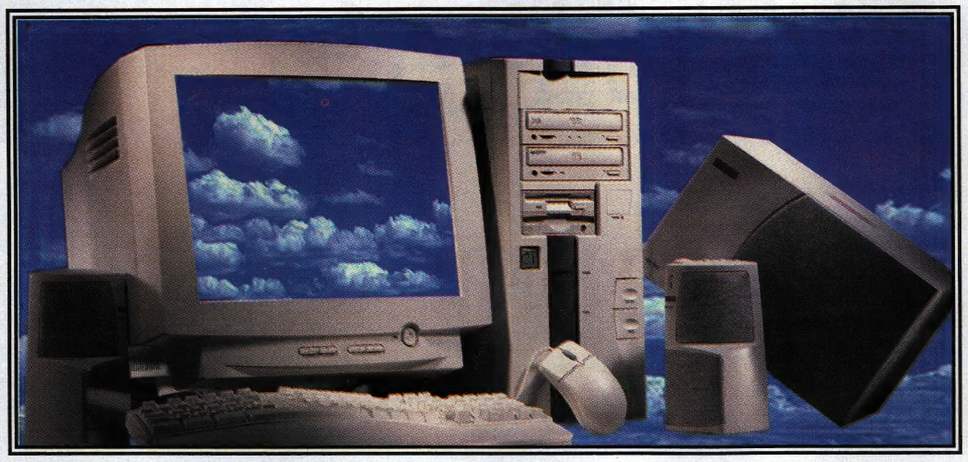
Do you demand desktop-style credentials from a notebook? If so, turn to our review of the Quantex I-1511, a 400MHz Pentium II speedster with a spacious 15.1-inch screen. Also, we put EXP's portable DVD solution and Iomega's Clik PC Card Drive to the test.

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Seeking storage? Castlewood's new Orb drive gives Iomega's Jaz a run for the money. Also, we review two cool 2-megapixel digital cameras, Diamond's new TNT2 graphics card, and Imation's affordable 4x CD-RW drive.

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Broadband is in demand. With always-on, superspeedy connections, everyone wants a piece of the access. Find out all you need to know about broadband Internet connections—including how to keep your computer secure—in our special report.

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Vector-drawing programs have always provided graphic designers and illustrators with unmatched accuracy and precision. Now they also offer greater ease of use without sacrificing power. We look at what's new with the leading packages, as well as check out some of the latest software and games.

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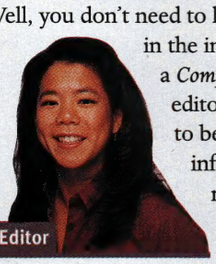
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FROM THE EDITOR

Insider Shopping

When I get an unexpected call from a long-time-no-see friend or relative, it often turns out to be either a desperate appeal for tech support or someone looking for the inside scoop on buying a computer product.

Well, you don't need to know someone in the industry (or have a *Computer Shopper* editor in the family) to be privy to insider information. This month, in our third annual Shop Smart issue, we tip you off to some of the best-kept bargain-hunting secrets in the PC market. Our cover story, on p. 80, offers the latest intelligence on how to save money, including where to get deals on surplus equipment and how to get factory-outlet pricing from big-name vendors like Dell, Gateway, HP, and others. Also, we profile three real-world shoppers—in the home-office, small-business, and corporate domains—who share their own best secrets for big savings. We also give you the heads-up on ways to get price breaks when shopping online, ranging from Web-based house auctions to dealers that specialize in selling end-of-lease or end-of-line products at deep discounts.

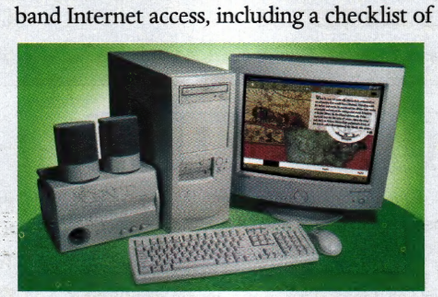


Janice Chen, Editor



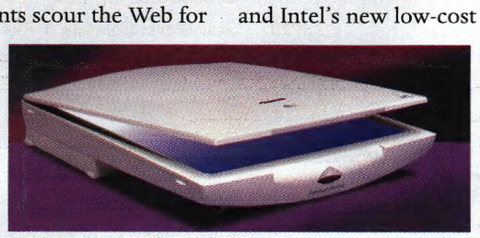
With Web shopping sites popping up faster than you can type "Ctrl-O," finding the best price for the product you want can become a point-and-click nightmare. That's where shopping bots come in. These automated agents scour the Web for you, finding the lowest prices on everything from the latest PDA to that rare Barbie doll you've been searching for. Unfortunately, not all bots are created equal. Turn to p. 122 in our e-Shopper section to find out which ones are best and how to make them work for you. And don't forget to peruse our e-Shopper listings for mini-reviews of the hottest online buying sites.

Shopping on the Web can save you both time and money, but if you have a slow Internet connection, ordering a copy of *From Here to Eternity* from Amazon.com can take on a whole new meaning. With more and more home and small-business surfers demanding the superfast, always-on Internet connections their corporate counterparts enjoy, high-bandwidth access technologies like ADSL and cable will soon be coming to a neighborhood near you—if they haven't already arrived. Our special report on p. 224 tells you all you need to know about broadband Internet access, including a checklist of

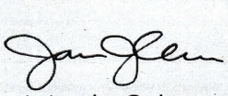


questions to ask potential providers before you sign on the dotted line.

Of course, fast access and low prices can only get you so far. To get the best value over time, you need to choose quality products. Each month, our editors help you narrow down your shortlist by selecting the top values in desktops, mobile, hardware, software, and networking products. This month's Best Buys Top 25 includes Dell Computer's first basic PC selling for $999 and under. Reviewed on p. 158A, the Dell Dimension L400 is based on a 400MHz Celeron CPU and Intel's new low-cost 810 chip set.



And finally, don't forget to check out this month's "Hard Edge" on p. 281. Alice and Bill celebrate their seventh anniversary of delivering a reality check on the PC industry at large.



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- Microsoft Windows® 98

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Award Winner, Computer Shopper May 1999

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Daniel A. Begum, May 1999 Computer Shopper

"Best Bargains" ABS Supreme DVD System 3

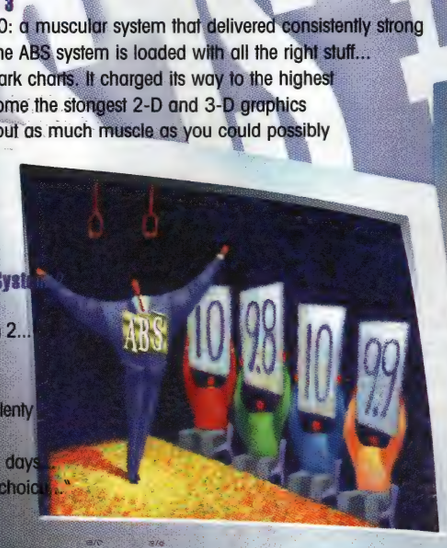
"It was the most ambitious configuration for $1,500: a muscular system that delivered consistently strong performance without compromising on features...The ABS system is loaded with all the right stuff... This powerhouse was the racehorse of the benchmark charts. It charged its way to the highest Business Winstone 99 score, 22.0, and brought home the stongest 2-D and 3-D graphics performance across the board... ABS gives you about as much muscle as you could possibly expect for a mid-market price... solid component and lengthy warranty, the DVD 3 is among the best bargains."

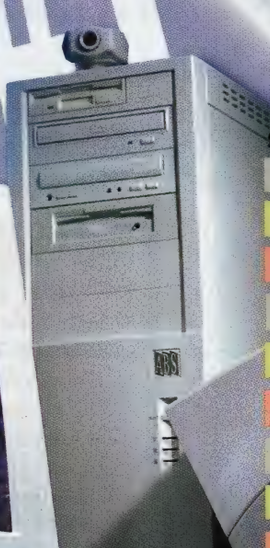
Stephen W. Plain, March 1999 Computer Shopper

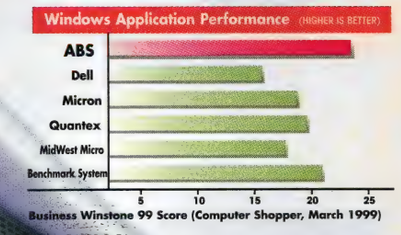
"Best Overall Value" ABS Multimedia System

"The best overall value in this roundup, ABS Computer Technologies' $999 Multimedia System 2... the system easily outpaced others in this feature on Business Winstone 98... also turned in field-leading scores on the WinBench 98 graphics tests..it makes plenty of room for expansion, with three open accessible 5.25-inch drive days and two open internal 3.5-inch days... the ABS Multimedia System 2 rates as an excellent choice..."

Patrick Norton, February 1998 Computer Shopper







Standard Features:

- 3 Year Limited Parts Warranty
- Lifetime Labor Warranty
- 30 Days Money Back Guarantee
- 24 Hours/7 Days Toll-Free Technical Support
- Year 2000 Compliant
- 30Days Earthlink Internet Access
- Diamond Multimedia MP3/Rio Ready
- 100% Non-Proprietary
- Completely Upgradable

Service and Support Reviews

	ABS	CyberMax	Dell	Micron	Gateway	Quantex	Compaq
Phone Support Promptness	A	C	B	C	B	D	A
Warranty Term	A	B	B	B	B	B	B
Phone Support Courteousness	B	A	A	A	A	B	B
Phone Support Technical Knowledge	B	A	B	B	B	B	C

Source: June 1999 C-Net

Please turn to page 10 & 11 for more ABS Best Value systems

NEW

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ABS SUPREME DVD SYSTEMS

OnlineOrder www.buyabs.com/DVD1

DVD1

256MB/14.4GB/DVD/19"/56Kbps

- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
- 256MB PC100 SDRAM
- 14.4GB Ultra ATA 7200rpm Hard Drive
- *NEW* 6X DVD-ROM
- **Internal 100MB EIDE Zip Drive w/1 Disk**
- *NEW* Diamond Viper 770 NVIDIA RIVA TNT2 32MB 128Bits 2X/4X AGP Max 2048x1536, Support: Open GL, DirectX 6, Direct3D
- **Digital Color Internet Camera**
- 19" Optiquest V95 .26DP 1600x1200 Color Monitor, MPR II
- Creative Labs SoundBlaster Live! Value Sound Card
- Altec Lansing ACS45.1 PowerCube™ Multimedia Subwoofer Speaker System
- ZOOM 56K V.90 PCI Date/Fax Modem w/ Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- MS Natural Keyboard & IntelliMouse w/ABS Mouse Pad
- ATX Mid Tower (Optional Full Tower Case +$25)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- **ADD Canon Ink Jet BJC2000 Printer, 720x360 DPI, 5PPM @ $79**
- Free Software: Corel WordPerfect Office 2000

"Best Buy" Computer Shopper May 1999

Intel® Pentium® III Processor w/512KB Cache

450MHz	$1799	#8112
500MHz	$ 1999	#8111
550MHz	$ 2239	#8110

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 1749	#8113

OnlineOrder www.buyabs.com/DVD2

DVD2

128MB/17.2GB/DVD/19"/56Kbps

- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
- 128MB PC100 SDRAM
- 17.2GB Ultra ATA Hard Drive, 9.0ms, 5400rpm
- ADD 32X4X4 CD-RW Drive @ $259
- *NEW* 6X DVD-ROM
- *NEW* ATI Rage Fury 32MB 128Bits 2X AGP Max 1920x1440 Support: Open GL, DirectX 6, Direct 3D, and Hardware DVD TV-Out
- Creative Labs SoundBlaster PCI128 Sound Card
- Altec Lansing ACS45.1 PowerCube™ Multimedia Subwoofer Speaker System
  Upgrade to ADA 305 Pro-Logic Surround Sound System @$60
- 19" .26DP 1600x1200 Color Monitor, MPR II
- ZOOM 56K V.90 PCI Date/Fax Modem w/ Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G
- ABS Net Mouse & ABS Mouse Pad
- ABS 104 Key Win '98 Keyboard
- ATX Mid Tower (Desktop Case Optional)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000

Intel® Pentium® III Processor w/512KB Cache

450MHz	$1499	#8122
500MHz	$ 1699	#8121
550MHz	$ 1939	#8120

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 1449	#8123

OnlineOrder www.buyabs.com/DVD3

DVD3

128MB/14.4GB/DVD/17"/56Kbps

- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
- 128MB PC100 SDRAM
- 14.4GB Ultra ATA 7200rpm Hard Drive
- 3rd Generation DVD-ROM
- Diamond Viper 550 NVIDIA RIVA TNT 16MB 128Bits 2X AGP Max 1920x1200 Support: OpenGL, DirectX 6, Direct3D
- 17" .25DP SVGA 1600x1200NI Monitor, Flat Screen, MPR II
- Creative Labs SoundBlaster PCI128 Sound Card
- Altec Lansing ACS45.1 PowerCube™ Multimedia Subwoofer Speaker System
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G
  Upgrade to LS120 SuperDisk 120MB Floppy Drive @$89
- MS Natural Keyboard Elite
- MS IntelliMouse w/ABS Mouse Pad
- ATX Mid Tower (Desktop Case Optional)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000

"Best Bargains" Computer Shopper March 1999

Intel® Pentium® III Processor w/512KB Cache

450MHz	$1359	#8132
500MHz	$ 1559	#8131
550MHz	$ 1799	#8130

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 1309	#8133

ABS MULTIMEDIA SYSTEMS

OnlineOrder www.buyabs.com/SYS2

SYS2

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- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
- 128MB PC100 SDRAM
- 8.4GB Ultra ATA 5400rpm Hard Drive
- 3rd Generation DVD-ROM
- ATI Xpert 98 3D 2X AGP 8MB Video Card
  3D Rage Pro Chipset "DVD Ready" MPEG
  High Res 1600x1200 @ 85Hz, Flicker Free up to 200Hz
- 17" .27DP Color Monitor Flat Screen, MPR II
- ABS 3D Wavetable Sound Card w/3D Effect, 128 Sound, 32 Voice
- Powered Stereo Speakers, 14W RMS, 80W PMPO & Microphone
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G
- ABS Net Mouse & ABS Mouse Pad
- ABS 104 Key Win '98 Keyboard
- ATX Mid Tower (Desktop Case Optional)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- **ADD Canon Ink Jet BJC2000 Printer, 720x360 DPI, 5PPM @ $79**
- Free Software: Corel WordPerfect Office 2000

"Best Overall Value" Computer Shopper Feb 1998

Intel® Pentium® III Processor w/512KB Cache

450MHz	$1069	#8072
500MHz	$ 1269	#8071
550MHz	$ 1519	#8070

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 1019	#8073

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9997 Rose Hills Road, Whittier, CA 90601

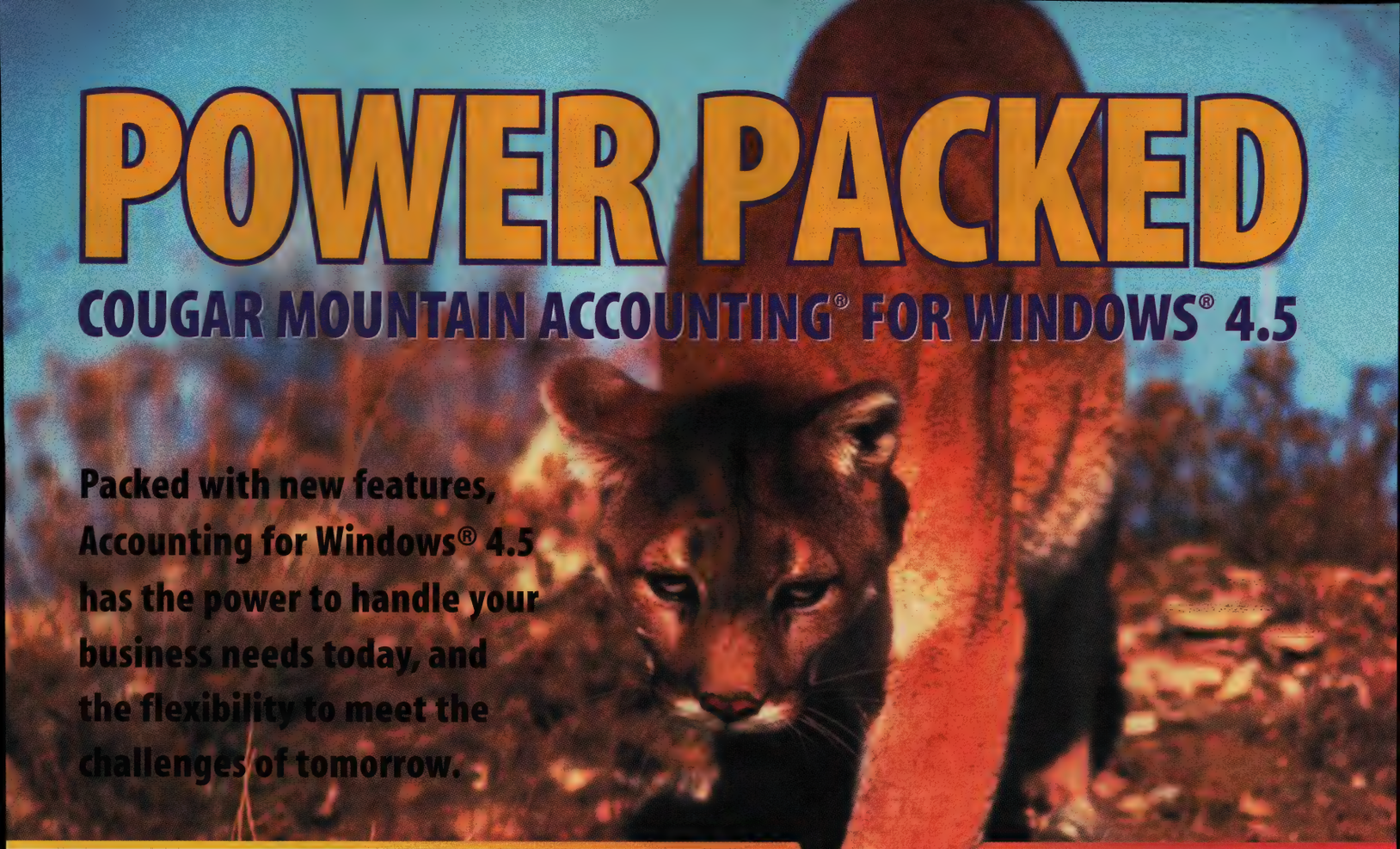
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Take advantage of every add-on sales opportunity by attaching sales prompts to appropriate inventory items.

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Take it from the Experts

"The Best Overall Value."

Please turn to page 8 for more ABS Best Value systems

Take it from the Experts
Computer Shopper *Sub-$1,000 PCs*

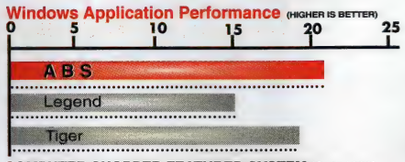
"...The ABS Supreme DVD 4 delivers some of the best specs in this feature and adds strong performance, DVD compatibility...it achieved a Winstone rating that is virtually identical to that of 300MHz Pentium II...When it comes to 3-D performance, no other system came close to matching the ABS's chart-topping result..."

Take it from the Experts
Computer Shopper *Best PCs Under $1,499*

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Computer Shopper Featured System Feb 1998:

~Source Page: 166-182 By Patrick Norton.



COMPUTER SHOPPER FEATURED SYSTEM (Oct. 1998)
Source Pages: 190~200 One-Grand System
by Stephen W. Plain (Oct. 1998)

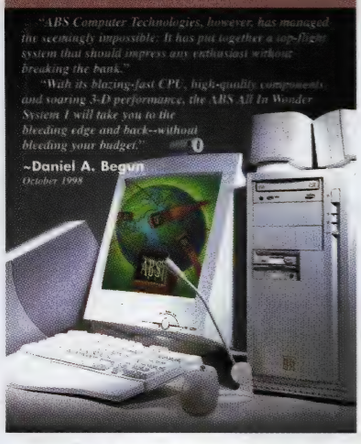


COMPUTER SHOPPER FEATURED SYSTEM (May. 1998)
Source Pages: 158-168 Purchasing Power by
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Computer Shopper "Get It All With the ABS All In Wonder System 1"



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- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
- 256MB PC100 SDRAM
- **20GB Ultra ATA 7200rpm Hard Drive**
- *NEW* 6X DVD-ROM
- Iomega 100MB Internal Zip Drive w/Disk
- Digital Color Internet Camera
- ATI Rage Fury 32MB 128Bits 2X AGP Max 1920x1440 Support: Open GL, DirectX 6, Direct3D, and Hardware DVD TV-Out
- **TV Tuner Card w/Video Caputre, TV-In**
- 19" .26DP 1600x1200 Color Monitor, MPR II
- *NEW* Creative Labs SoundBlaster Live! Value Sound Card
- Altec Lansing ADA305 Pro-Logic Surround Sound Speaker Systems
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- MS Natural Keyboard & IntelliMouse w/ABS Mouse Pad
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ATX Mid Tower (Desktop Case Optional)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free 36Bit True Color 1200x600DPI USB Scanner
- Free Software: Corel WordPerfect Office 2000
- Free Canon Color Ink Jet BJC2000 Printer, 720x360DPI, 5PPM

FREE Canon BJC-2000 Printer

Intel® Pentium® III Processor w/512KB Cache

450MHz	$2089	#8182
500MHz	$ 2279	#8181
550MHz	$ 2539	#8180

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 2039	#8183

OnlineOrder www.buyabs.com/AIWS2

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- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
- 256MB PC100 SDRAM
- **20GB Ultra ATA 7200rpm Hard Drive**
- *NEW* 6X DVD-ROM
- Iomega 100MB Internal Zip Drive w/Disk
- Digital Color Internet Camera
- ATI Rage Fury 32MB 128Bits 2X AGP Max 1920x1440 Support: Open GL, DirectX 6, Direct3D, and Hardware DVD TV-Out
- **TV Tuner Card w/Video Caputre, TV-In**
- 19" .26DP 1600x1200 Color Monitor, MPR II
- *NEW* Creative Labs SoundBlaster Live! Value Sound Card
- Altec Lansing ACS45.1 Subwoofer Speaker System
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- PS/2 Net Mouse, ABS Mouse Pad, 104 Key Win '98 Keyboard
- ATX Mid Tower (Desktop Case Optional)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000
- Free Canon Color Ink Jet BJC2000 Printer, 720x360DPI, 5PPM
- **Add 36Bit 1200x600DPI FlatBed USB Scanner @ $99**

FREE Canon BJC-2000 Printer

Intel® Pentium® III Processor w/512KB Cache

450MHz	$1929	#8192
500MHz	$ 2119	#8191
550MHz	$ 2369	#8190

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 1879	#8193

CNET Computers.com "ABS Gamer's DVD Special is a Knockout Machine"



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OnlineOrder www.buyabs.com/SCSI

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- Adaptec UW SCSI Controller
- 18GB Ultra SCSI Hard Drive
- 48X CD-ROM
- ATI Xpert 98 3D 2X AGP 8MB Video Card High Res 1600x1200 @ 85Hz, Flicker Free up to 200Hz
- 15" .28DP Color Monitor
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS Net Mouse & ABS Mouse Pad
- ABS 104 Key Win '98 Keyboard
- 3Com 10/100 Ethernet Network Card
- ATX Full Tower Case
- Microsoft Windows NT Server 4.0 w/10 Client Access

Intel® Pentium® III Processor w/512KB Cache

450MHz	$2409	#8862
500MHz	$ 2619	#8881
550MHz	$ 2869	#8880

Intel® Pentium® II Processor w/512KB Cache

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- 128MB PC100 SDRAM
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- **Add Internal 250MB EIDE Zip Drive @ $159**
- 48X Max EIDE CD-ROM
- **3Dfx Voodoo3 3000 16MB 128Bits 2X AGP Max 2048x1536, Support: OpenGL, DirectX 6, Direct3D, Glide**
- 19" .26DP 1600x1200 Color Monitor, MPR II
- Creative Labs SoundBlaster PCI128 Sound Card
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- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS Net Mouse & ABS Mouse Pad
- ATX Mid Tower & 104 Key Win '98 Keyboard
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000
- Add Canon Color BJC5000 Printer, 720x360DPI, 5PPM @ $179

Intel® Celeron™ Processor w/128KB Cache

400MHz	$1229	#8472
433MHz	$ 1269	#8471
466MHz	$ 1299	#8470

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 1329	#8473

OnlineOrder www.buyabs.com/iPC2 **iPC2**

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- 13GB Ultra ATA Hard Drive, 9.0ms, 5400rpm
- 40X Max EIDE CD-ROM
- ATI Xpert 98 3D 2X AGP 8MB Video Card 3D Rage Pro Chipset "DVD Ready" MPEG High Res 1600x1200 @ 85Hz, Flicker Free up to 200Hz
- 17" .27DP Color Monitor Flat Screen, MPR II **Upgrade to: 19" .26DP 1600x1200max MPRII Monitor @ $175**
- ABS 3D Wavetable Sound Card w/3D Effect, 128 Sound, 32 Voice
- Powered Stereo Speakers, 14W RMS, 80W PMPO & Microphone
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS Net Mouse & ABS Mouse Pad
- ATX Mid Tower & 104 Key Win '98 Keyboard
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000

Intel® Celeron™ Processor w/128KB Cache

400MHz	$919	#8482
433MHz	$ 959	#8481
466MHz	$ 979	#8480

Intel® Pentium® II Processor w/512KB Cache

400MHz	$ 999	#8483

OnlineOrder www.buyabs.com/iPC3 **iPC3**

64MB/8.4GB/40X/15"/56Kbps

- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB Ports
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- 40X Max EIDE CD-ROM
- ATI Xpert 98 3D 2X AGP 8MB Video Card 3D Rage Pro Chipset "DVD Ready" MPEG High Res 1600x1200 @ 85Hz, Flicker Free up to 200Hz
- 15" .28DP Color Monitor **Upgrade to 17" .27DP Color Monitor MPR II @ $85**
- ABS 3D Wavetable Sound Card w/3D Effect, 128 Sound, 32 Voice
- Powered Stereo Speakers, 14W RMS, 80W PMPO & Microphone
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- ABS Net Mouse & ABS Mouse Pad
- ATX Mid Tower & 104 Key Win '98 Keyboard
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000

Intel® Celeron™ Processor w/128KB Cache

400MHz	$759	#8492
433MHz	$ 799	#8491
466MHz	$ 829	#8490

Intel® Pentium® II Processor w/512KB Cache

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Take it from the Experts *January 1998*
Michael J. Miller, Editor-in-Chief, PC Magazine.

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intel inside
pentium® III

ABS DIAMOND Rio PC

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- Intel® BX Chipset ATX Motherboard w/AGP and 2 USB
- 128MB PC100 SDRAM
- **20GB Ultra ATA 7200rpm Hard Drive**
- 3rd Generation DVD-ROM
- Digital Color Internet Camera
- Diamond Viper 770 NVIDIA RIVA TNT2 32MB 128Bits 2X/4X AGP Max 2048x1536, Support: Open GL, DirectX 6, Direct3D
- 19" Optiquest V95 .26DP 1600x1200 Color Monitor, MPR II
- *NEW* Diamond Monster MX3000 Wavetable Sound Card
- *NEW* **Diamond Rio Portable MP3 Players**
- Altec Lansing ACS45.1 Speaker w/PowerCube™ Subwoofer
- **Diamond Supra Express 56K V.90 Data/Fax/Vocie Modem**
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- **Diamond Gyromouse Pro Cordless Mouse w/Pad**
- ATX Mid Tower & ABS 104 Keyborad
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- **ADD Canon Ink Jet BJC5000 Printer, 720x360 DPI, 10PPM @ $179**
- Free Software: Corel WordPerfect Office 2000

Intel® Pentium® III Processor w/512KB Cache

450MHz	$1999	#8282
500MHz	$2199	#8281
550MHz	$2439	#8280

OnlineOrder www.buyabs.com/RPC2

RPC2
128MB/14.4GB/48X/17"/56Kbps

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- **14.4GB Ultra ATA 7200rpm Hard Drive**
- 48X Max EIDE CD ROM
- Upgrade to 3rd Generation DVD ROM @ $65
- Diamond Viper 550 NVIDIA RIVA TNT 16MB 128Bits 2X AGP Max 1920x1200 Support: OpenGL, DirectX 6, Direct3D
- 17" .25DP 1600x1200 Color Monitor, MPR II
- Creative Labs SoundBlaster PCI128 Sound Card
- *NEW* **Diamond Rio Portable MP3 Players**
- Altec Lansing ACS45.1 Speaker w/PowerCube™ Subwoofer
- ZOOM 56K V.90 PCI Date/Fax Modem w/Voice Mail
- 1.44MB Floppy Drive, High Speed I/O Ports: 2S, 1P, 1G, 2USB
- Microsoft Natural Keyboard Elite and ABS Net Mouse
- ATX Mid Tower (Desktop Case Optional)
- Microsoft Windows '98 w/USB Support, Manual & CD
- Free Software: Grolier's Encyclopedia
- Free Software: Corel WordPerfect Office 2000
- Add Corel Draw 9.0 CD @$149

Intel® Pentium® III Processor w/512KB Cache

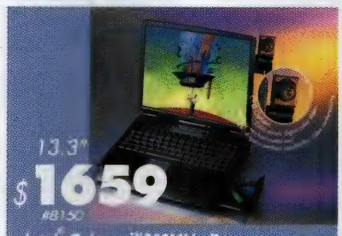
450MHz	$1459	#8292
500MHz	$1669	#8291
550MHz	$1919	#8290

ABS NOTEBOOK

OnlineOrder www.buyabs.com/iNB1

iNB1
13.3"TFT/32MB/24X

- Intel® Celeron™ Processor
- 13.3" TFT Display 1024X768
- **32MB** EDO DIMM Memory
- **24X** CD-ROM
- 1.44MB Floppy Drive Swappable w/CD-ROM
- **4.0GB** Removable Hard Drive
- **4MB RAM** ATI 3D Rage 64Bits VGA
- **56K** Fax Modem
- PCMCIA Slots, Two Type II/One Type III
- Lithium Ion Battery 4500 Mah
- 16-bit Stereo Sound
- Built-in Speakers & Mic
- Ports: 1 MIDI/Game, 1S, 1P, 1PS2 (KB/Mouse), FIR
- Windows '98 preinstalled w/Manual & CD
- Carrying Case and AC Adapter
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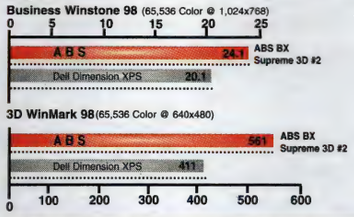
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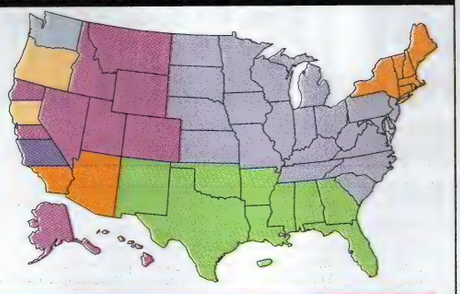
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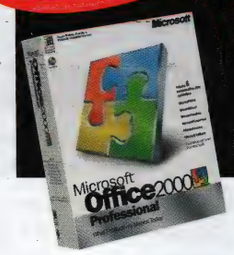
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CRW4416S 4x4x16 Internal SCSI 269
CRW4416SX2 External SCSI 349

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SAF-793 ..... 429 SAF-795 425
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SAF-788 ..... 385 SAF-797 669
SAF-789 ..... 469 SAF-798 215
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SAF-786 399

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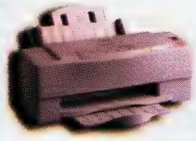
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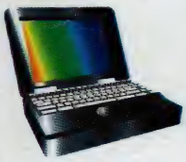
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ViewSonic Model	CRT Size/ Viewable	Dot Pitch	Maximum Resolution	OnView® Digital Controls	Low Radiation
E641	14/13.2	0.28	1024 x 768	DIGITAL	MPRII
E651	15/13.7	0.28	1024 x 768	DIGITAL	MPRII
E655	15/13.8	0.28	1280 x 1024	YES	TCO '92
E771	17/16.0	0.27	1280 x 1024	YES	TCO '92
E790	19/18.0	0.26	1600 x 1280	YES	TCO '95

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GA655	15/14.0	0.27	1280 x 1024	TCO '95	2-watt (X2)
EA771∞	17/16.0	0.27	1280 x 1024	MPRII	2-watt (X2)
GA771	17/16.0	0.27	1280 x 1024	TCO '95	3-watt (X2)
MB90**	19/18.0	0.26	1600 x 1280	TCO '95	5-watt (X2)
MB110**	21/20.0	0.26	1600 x 1280	TCO '92	5-watt (X2)

∞Also available in black bezel ** Multi-port USB hub

Graphics Series

These monitors incorporate features normally found in much more expensive models. They are the ideal choice for applications ranging from desktop publishing to full office automation. The Graphics Series for general business was designed to maximize high performance and technology at a reasonable price.

ViewSonic Model	CRT Size/ Viewable	Dot Pitch	Maximum Resolution	TCO Low Radiation	OnView Digital Controls
G653	15/14.0	0.27	1280 x 1024	TCO '95	YES
G773**	17/16.0	0.26	1280 x 1024	TCO '95	YES
GS771†	17/16.0	0.27	1280 x 1024	TCO '95	YES
GT775†	17/16.0	0.25	1600 x 1200	TCO '95	YES
G790	19/18.0	0.26	1600 x 1280	TCO '95	YES
G810	21/20.0	0.25	1600 x 1280	TCO '92	YES

*Short Depth Monitor †Aperture Grille ** Multi-port USB hub

Professional Series

These monitors fulfill the needs of the most discriminating user. The Professional Series is ideal for professional applications ranging from CAD/CAM/CAE to professional desktop publishing and graphic design.

ViewSonic Model	CRT Size/ Viewable	Dot Pitch/ Aperture Grille Pitch	Maximum Resolution	TCO Low Radiation
P655	15/14.0	0.27	1280 x 1024	TCO '95
PS775*	17/16.0	0.25	1600 x 1280	TCO '95
PT771	17/16.0	0.25	1600 x 1280	TCO '95
PT775**†	17/16.0	0.25	1600 x 1280	TCO '95
PS790*	19/18.0	0.25	1600 x 1280	TCO '95
PT795**†	19/18.0	0.25-0.27	1920 x 1440	TCO '99
P810	21/20.0	0.25	1600 x 1280	TCO '95
PT813†	21/20.0	0.28	1600 x 1280	TCO '95
P815	21/20.0	0.25	1920 x 1440	TCO '95
P817**	21/20.0	0.26	2048 x 1536	TCO '99

†Aperture Grille *Short Depth Monitor **Multi-port USB hub *Multi-port USB hub and Short Depth #PerfectFlat™

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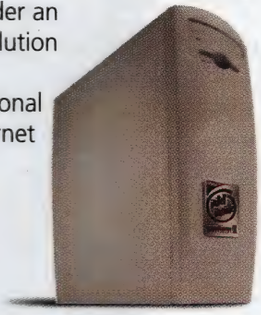
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VPA138	13.8	PIVOT	1024 x 768	YES	YES
VPA145	14.5	PIVOT	1024 x 768	YES	YES
VPA150	15.0	PIVOT	1024 x 768	YES	YES
VP150	15.0	WALL MOUNTABLE	1024 x 768	YES	
VPD150	15.0	PIVOT	1024 x 768	DIGITAL INTERFACE	YES
VG180	18.1	WALL MOUNTABLE	1280 x 1024	YES	

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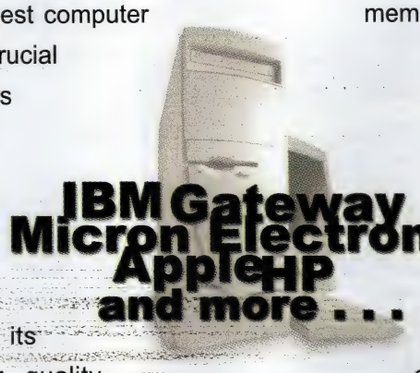
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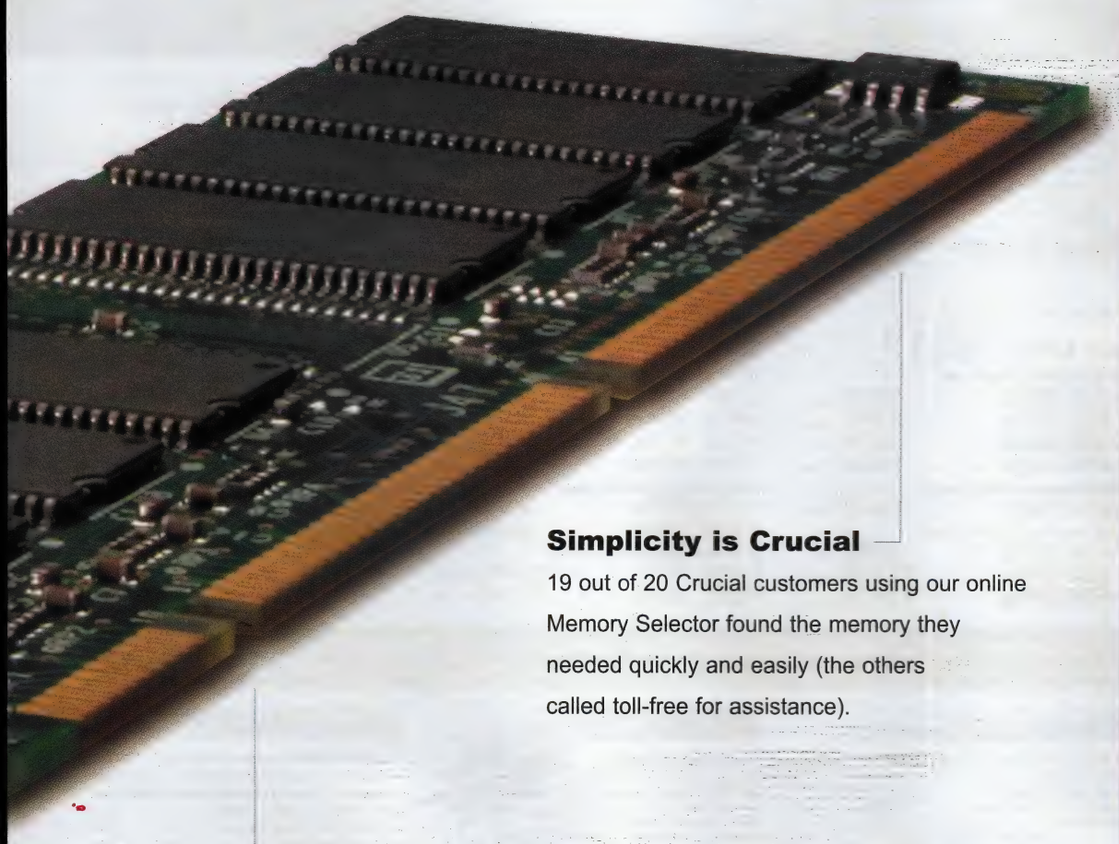
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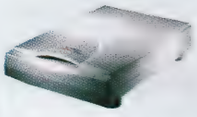
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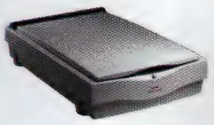
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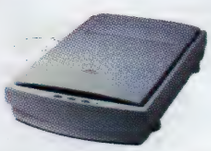
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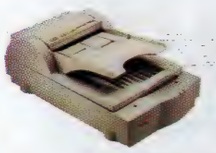
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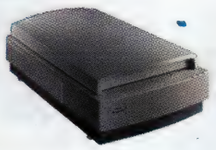
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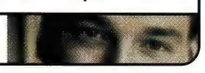
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Gateway Performance 550XL

The Gateway™ Performance Line:
serious computers with serious components.

Looking for a PC that's not fooling around? One with blazing processor speeds that's tricked out with the highest-end components? Bring on the Gateway Performance PCs—our line of top-tier machines. With the latest processor technology, lots of room to expand and intense multimedia prowess, they're dialed up to power-user levels. Pick a model, and we'll customize it the way you want.

Gateway™ Performance 450

- Intel® **Pentium® III** Processor 450MHz with 512K Cache
- 128MB SDRAM
- EV700 .28 Screen Pitch 17" Monitor (15.9" viewable)
- 16MB NVIDIA™ RIVA TNT™ AGP Graphics
- 13.5GB **Ultra ATA 66 7200 RPM** Hard Drive
- 6X DVD-ROM Drive & MPEG2 Decoder
- SoundBlaster® AudioPCI™ 64D
- **Boston Acoustics®** BA735™ Digital Speakers w/ Subwoofer
- 3Com® U.S. Robotics® 56K³ PCI Voice Ready WinModem®
- 8-Bay Mid-Tower Case
- Microsoft® Windows® 98
- MS® Works Suite 99 Software

$1599 or as low as $45/mo. for 48 mos. through our Your:)Ware™ program*

Add a 100MB Iomega® ZIP BUILT-IN™ Internal Drive w/1 ZIP Disk– $79

Upgrade to an EV910 19" Monitor (18" viewable) - $130

Gateway Performance 500

- Intel **Pentium III** Processor 500MHz with 512K Cache
- 128MB SDRAM
- EV700 .28 Screen Pitch 17" Monitor (15.9" viewable)
- **16MB 3Dfx® Voodoo™3 3000G AGP Graphics**
- 13.5GB **Ultra ATA 66 7200 RPM** Hard Drive
- 6X DVD-ROM Drive & MPEG2 Decoder
- SoundBlaster AudioPCI 64D
- **Boston Acoustics** BA735 Digital Speakers w/ Subwoofer
- 3Com U.S. Robotics 56K³ PCI Voice Ready WinModem®
- 8-Bay Mid-Tower Case
- Microsoft Windows 98
- MS Works Suite 99 Software

$1799 or as low as $50/mo. for 48 mos. through our Your:)Ware™ program*

Upgrade to a VX900 19" Monitor (18" viewable) - $230

Upgrade to 32MB NVIDIA RIVA TNT2™ AGP Graphics - $70

Gateway Performance 550

- Intel **Pentium III** Processor 550MHz with 512K Cache
- 128MB SDRAM
- VX900 .26 Screen Pitch 19" Monitor (18" viewable)
- **32MB** NVIDIA RIVA TNT2 AGP Graphics
- 13.5GB **Ultra ATA 66 7200 RPM** Hard Drive
- 6X DVD-ROM Drive & MPEG2 Decoder
- SoundBlaster AudioPCI 64D
- **Boston Acoustics** BA735 Digital Speakers w/ Subwoofer
- 3Com U.S. Robotics 56K³ PCI Voice Ready WinModem®
- 8-Bay Mid-Tower Case
- Microsoft Windows 98
- MS Works Suite 99

$2199 or as low as $62/mo. for 48 mos. through our Your:)Ware™ program*

Upgrade to a 10-Bay Tower Case - $50

Upgrade to an 18GB Hard Drive - $110

Gateway Performance 550XL

- Intel® **Pentium® III Xeon™** Processor 550MHz with 512K Cache
- 128MB SDRAM
- VX900 .26 Screen Pitch 19" Monitor (18" viewable)
- **32MB** NVIDIA RIVA TNT2 **Ultra** AGP Graphics
- TV/FM Tuner Card
- 22GB **Ultra ATA 66 7200 RPM** Hard Drive
- 6X DVD-ROM Drive & MPEG2 Decoder
- **Philips® CD-RW (CD-Rewritable) Drive w/Media**
- SoundBlaster Live!Value with Digital Audio Output
- **Boston Acoustics** Digital MediaTheater™ Dolby® Digital 3-Piece Speaker System
- 3Com U.S. Robotics 56K³ PCI Voice Ready WinModem®
- **Intel® AnyPoint™ Home Networking Ready**
- 10-Bay Tower Case
- Microsoft Windows 98
- MS Office 2000 Small Business Software

$3799 or as low as $106/mo. for 48 mos. through our Your:)Ware™ program*

Add 1-Year gateway.net℠ Internet Access¹- $129

intel inside

pentium® III

All Gateway Performance PCs include:

- 3.5" Diskette Drive
- MultiFunction Keyboard
- Mouse
- Year 2000 Compliance⁴
- 3-Year Parts & Labor Limited Warranty / 1-Year On-site Warranty Service**

Ask us for details about software training offered at our Gateway Country® stores.

Gateway's Solutions

and Upgrades: after you pick your computer, give it something to do.

Choose any Gateway Essential or Gateway Performance PC, and you can customize it with the following solution packages:

Additional Upgrades

Thrustmaster® Reflex USB™ 3-D Joystick - $49

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Philips® CD-RW Recordable/ Rewritable Drive w/Media - $199

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Olympus® D-340R Digital Camera - $399

Epson®-PhotoPC® 750Z Digital Camera - $699

Web Page Creator Software

Adobe® PageMill® 3.0, Micrografx® Webtricity™ 2

$129

Hasbro Interactive™ Classic Games

Pictionary,® Boggle,® Scrabble,® Sorry!,® Ultimate Yahtzee,® Clue®: Murder at Boddy Mansion, The Game of Life®

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Convert your home or office into a digital darkroom/design studio.

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CorelDRAW™ 8 Illustration/Layout Software

$678

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Everything you need to scan, store and organize a lifetime's worth of memories.

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Connect up to 10 PCs and share the Internet, using a single ISP account and one phone line.

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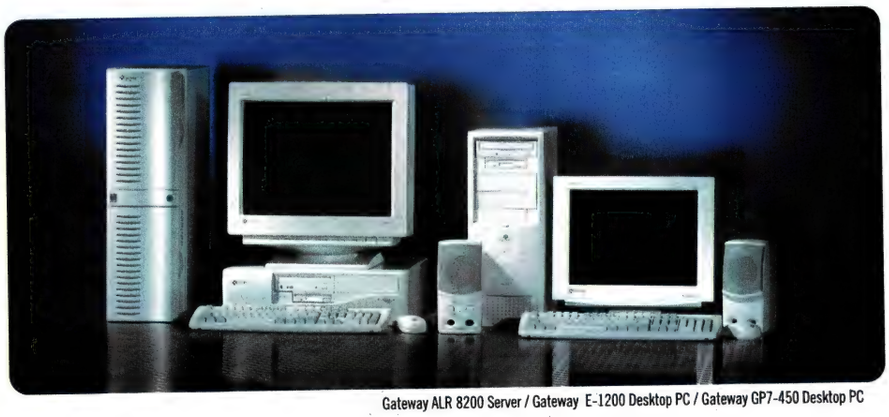
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Gateway™

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Gateway ALR 8200 Server / Gateway E-1200 Desktop PC / Gateway GP7-450 Desktop PC

Gateway™ for Business:

products and services to fit business both big and small.

Gateway Business Services: designed to take care of your business.

Your:)Ware℠ for Business:
for growing businesses

- A dedicated Business Account Representative providing custom solutions
- Custom-built systems after two years with Technology Refresh Business Lease°
- 24/7 business technical support, on-site limited warranty service;** network support and software training
- Full range of GP-Series desktops, Solo® portables and ALR®-Series servers
- Call to talk to a Business Account Representative, or we can arrange a meeting through your local Gateway Business Solutions℠ center

Business Assistance Center:
for small to medium businesses

Your mission-critical servers deserve mission-critical support. Gateway's Business Assistance Center provides advanced IT network services by Microsoft® Certified System Engineers, Microsoft Certified Professionals and Certified Novell® Engineers. We can assist your IT department or we can *be* your IT department. You choose the level of support that's best for your business.

System Management Service
(renewable annually) **$1799**

- Includes initial server configuration and setup, proactive maintenance, annual network consultation, 24/7 troubleshooting and more.

1-Year Network Operating System Support
(renewable annually) **$799**

Per Occurrence Calls **$129**

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Through our Custom Integration Services (CIS) program, Gateway will customize your multiple-unit orders to meet unique company needs. Ask us for information on how CIS can help your organization save money and get up and running faster. And, of course, we take care of testing and certifications prior to delivery at your location.

- **System customization**
- **Asset tagging & labeling**
- **Software & hard drive image loading**
- **Hardware integration**

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Get in touch with us for more information, and for the most current pricing.

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Gateway Business Products: high performance equipment with the flexibility to work the way you do.

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ALR 7200 Workgroup Server

- Intel® Pentium® II Processor 400MHz with 512K Cache (Dual Pentium II & Pentium III Processor Capable)
- 64MB PC 100 ECC SDRAM (expandable to 1GB)
- 4GB Ultra 2 SCSI 7200 RPM Hard Drive (expandable to 72GB)
- Integrated Intel 10/100 Twisted Pair Ethernet
- 13X min/32X max CD-ROM Drive & 3.5" Diskette Drive
- InforManager™ Server Management Software
- 3-Year Parts, Labor & On-site Limited Warranty**
- Year 2000 Compliant[4]

$1640
$56/mo. for 36 mos. business lease

ALR 8200 Departmental Server

- Intel Pentium II Processor 400MHz with 512K Cache (Dual Pentium II & Pentium III Processor Capable)
- 128MB PC 100 ECC SDRAM (expandable to 1GB)
- 9GB Ultra 2 SCSI 7200 RPM Hard Drive (expandable to 72GB)
- Integrated Intel 10/100 Twisted Pair Ethernet
- 13X min/32X max CD-ROM Drive & 3.5" Diskette Drive
- InforManager Server Management Software
- 3-Year Parts, Labor & On-site Limited Warranty**
- Year 2000 Compliant[4]

$2599
$89/mo. for 36 mos. business lease

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GP6-400c

- Intel® Celeron™ Processor 400MHz with 128K Cache
- 64MB SDRAM (expandable to 384MB)
- 4.3GB Ultra ATA Hard Drive
- EV500 15" Color Monitor (13.9" viewable)
- 8MB AGP Graphics
- 17X min/40X max CD-ROM Drive
- 10/100 Twisted Pair Ethernet
- Business Audio with Speakers
- **Microsoft® Office 2000 Small Business Software**
- MS® Windows® 95 or Windows 98

$999
$34/mo. for 36 mos. business lease

GP7-450

- Intel® Pentium® III Processor 450MHz with 512K Cache
- 96MB SDRAM (expandable to 384MB)
- 13GB Ultra ATA Hard Drive
- EV700 17" Color Monitor (15.9" viewable)
- 16MB AGP Graphics
- 17X min/40X max CD-ROM Drive
- 10/100 Twisted Pair Ethernet
- **Iomega Internal ZIP Drive**
- Business Audio with Speakers
- **MS Office 2000 Small Business Software**
- MS Windows 95 or Windows 98

$1499
$51/mo. for 36 mos. business lease

SOLO® Portable PCs

Solo 5150SP Road Warrior

- 14.1" TFT Color Display
- Intel Celeron Processor 333MHz
- 32MB SDRAM (expandable to 256MB)
- 4GB Ultra ATA Hard Drive (expandable to 10GB)
- Integrated CD-ROM Drive
- Integrated V.90 PC Card Modem[3] & 3Com® 10/100 Ethernet
- MS Windows 95 or Windows 98

$1899
$65/mo. for 36 mos. business lease

Solo 9150LS Desktop Replacement

- 15" TFT Color Display
- Intel Pentium II Processor 333MHz
- 64MB SDRAM (expandable to 384MB)
- 6GB Ultra ATA Hard Drive (expandable to 14GB)
- Integrated CD-ROM Drive & 3.5" Diskette Drive
- Integrated V.90 Modem[3]
- MS Windows 95 or Windows 98
- MS Office 2000 Small Business Software

$2699
$92/mo. for 36 mos. business lease

E Series Managed Desktop PCs

E-3200 400

- Intel Pentium II Processor 400MHz with 512K Cache
- 64MB SDRAM (expandable to 384MB)
- 8.4GB Hard Drive (expandable to 13GB)
- EV700 17" Color Monitor (15.9" viewable)
- Integrated ATI® RAGE™ PRO TURBO with 4MB
- 17X min/40X max CD-ROM Drive
- Integrated Business Audio
- Integrated 3com 10/100 Ethernet with Wake-up On LAN
- MS Windows 95 or Windows 98
- LANDesk® Client 3.31
- 3-Year Parts & Labor Limited Warranty**

$1349
$46/mo. for 36 mos. business lease

E-4200

- Intel Pentium III Processor 500MHz with 512K Cache
- 128MB SDRAM (expandable to 384MB)
- 13GB Hard Drive (expandable to 22GB)
- VX900 19" Color Monitor (18" viewable)
- ATI RAGE 128GL AGP Graphics with 16MB
- 3Com 10/100 Ethernet with Wake-up On LAN
- MS Windows NT 4.0
- LANDesk Client 3.31
- 3-Year Parts & Labor Limited Warranty**

$1999
$68/mo. for 36 mos. business lease

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° Technology refresh program participants, provided certain requirements are met, including credit approval, may choose to refresh their Base Unit, as defined in Lease Agreement, during the period(s) designated in the Lease Agreement. Equipment will be refreshed with the latest available model in its Product Class, as determined at Gateway's sole discretion, and will extend the lease for a term of 18 to 24 months as predetermined in the Lease Agreement and related Lease Schedule(s). Other terms and conditions apply. Leasing provided by independent leasing companies to qualified commercial customers. Lease terms subject to change without notice or obligation. Call for details. **Call 1-800-GATEWAY or write to Gateway Terms & Conditions, P.O. Box 1951, North Sioux City, SD 57049-1951 for a free copy of our limited warranties and on-site service agreements. On-site customers: If Gateway determines on-site service is necessary, it will be provided for product in the continental United States, Alaska, Hawaii, Puerto Rico and Canada (excluding mice, keyboards, docking stations, external peripherals and monitors). You may be asked to take your PC to a Gateway location for warranty service. See agreements for specific terms and limitations. Leasing provided by independent leasing companies to qualified commercial customers. Lease payments based on a 36-month term. Lease terms subject to change without notice or obligation.



Gateway Solo 9150XL

Gateway™ Portable PCs:

like a desktop PC, when the desk is your lap.

Solo® 2500SE

- 12.1" SVGA TFT Color Display
- Intel® Celeron™ Processor 333MHz
- 32MB SDRAM (expandable to 288MB)
- 2MB Graphics Accelerator with 64K Colors
- Integrated 10X min/24X max CD-ROM Drive & 3.5" Disk Drive
- 4GB Ultra ATA Hard Drive
- NiMH Battery & AC Pack
- NTSC/PAL Video Output
- EZ Pad® Pointing Device
- Starting Weight: 7.1 lbs.[5]
- Corel® WordPerfect® Suite 8 Software
- 1-Year Parts & Labor Limited Warranty**

$1499 or as low as $42/mo. for 48 mos. through our Your:)Ware™ program*

Solo 2500LS

- 13.3" SVGA TFT Color Display
- Intel® Pentium® II Processor 333MHz
- 32MB SDRAM (expandable to 288MB)
- 2MB Graphics Accelerator with 64K Colors
- Integrated DVD-II Drive & 3.5" Disk Drive
- 4GB Ultra ATA Hard Drive
- Lithium Ion Battery & AC Pack
- NTSC/PAL Video Output
- V.90 56K[3] Modem
- Casual Case
- EZ Pad Pointing Device
- Starting Weight: 7.1 lbs.[5]
- Microsoft® Office 2000 Small Business Software
- 1-Year Parts & Labor Limited Warranty**

$2299 or as low as $64/mo. for 48 mos. through our Your:)Ware program*

Solo 9150SE

- 14.1" XGA TFT Color Display
- Intel Pentium II Processor 333MHz
- 64MB SDRAM (expandable to 384MB)
- 2X AGP 3-D ATI® RAGE™ LT PRO with 8MB SGRAM
- Removable Combo DVD-II Drive & 120MB SuperDisk™ Drive
- 6GB Ultra ATA Hard Drive
- Lithium Ion Battery & AC Pack
- NTSC/PAL Video Input & Output
- Integrated V.90 56K[3] Modem
- Deluxe Leather Case
- EZ Pad Pointing Device
- Starting Weight: 8.6 lbs.[5]
- MS® Works Suite 99 Software
- 1-Year Parts, Labor Limited Warranty & On-site Service**

$2499 or as low as $70/mo. for 48 mos. through our Your:)Ware program*

Solo 9150XL

- 15.1" XGA TFT Color Display
- Intel Pentium II Processor 400MHz
- 256MB SDRAM (expandable to 384MB)
- 2X AGP 3-D ATI RAGE LT PRO with 8MB SGRAM
- Removable Combo DVD-II Drive & 120MB SuperDisk™ Drive
- 14GB Ultra ATA Hard Drive
- Two Lithium Ion Batteries & AC Pack
- NTSC/PAL Video Input & Output
- Integrated V.90 56K[3] Modem
- Deluxe Leather Case
- EZ Pad Pointing Device
- Port Replicator & External Battery Charger
- Starting Weight: 8.6 lbs.[5]
- MS Office 2000 Small Business Software
- 1-Year Parts, Labor Limited Warranty & On-site Service**

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All Solo Portable PCs include:

- USB Port
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- EZ S.M.A.R.T.™ Hard Drive Monitoring Protection Service
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- McAfee® VirusScan
- Year 2000 Compliance[4]

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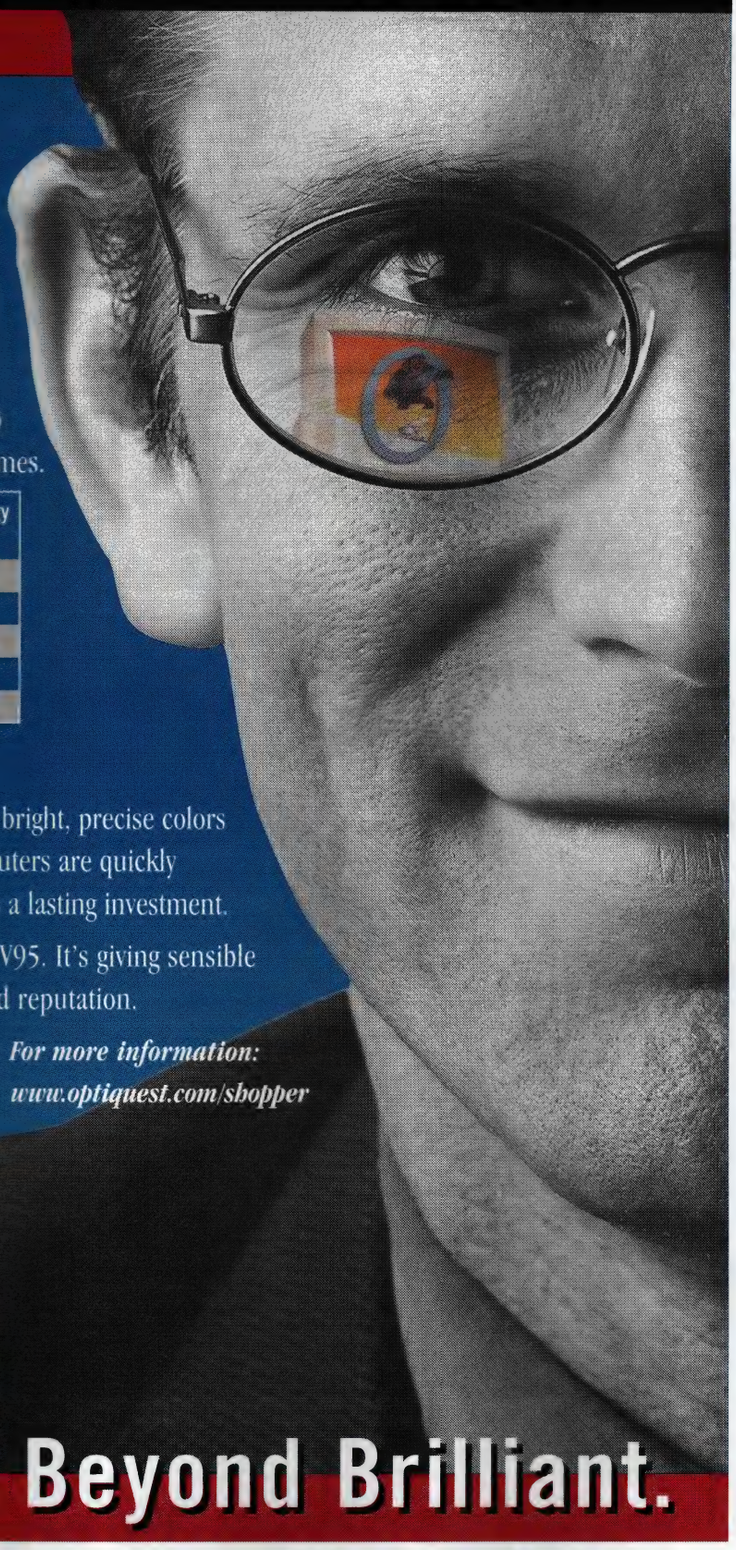
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Sensible never looked so good.



Breakthrough performance. Breakthrough price.

When *PC Magazine* selected the Optiquest V95 monitor as its "Editors Choice," it was partly for flawless front-of-screen performance. And partly for its amazingly affordable price. They were also impressed with how favorably this large screen 19" (18.0" viewable) display compares to 21" (various viewable) monitors for applications from spreadsheets to computer games.

Model	Optiquest V95	NEC Technology E900	NEC Technology A900
Viewable Image Size	18.0"	18.0"	18.0"
.26mm Dot Pitch or Better?	Yes	No	No
1,280 x 1,024 @ 88Hz	Yes	No	No
TCO Certified	Yes	Yes	No
PC Magazine Editors Choice	Yes	No	No

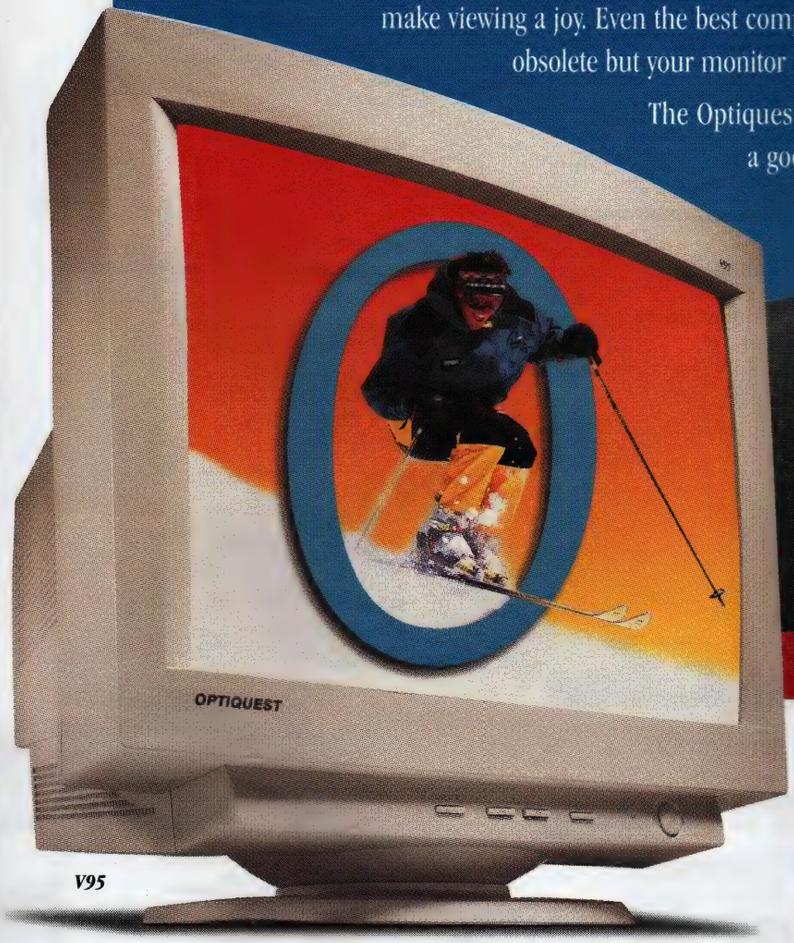
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PC MAGAZINE EDITORS' CHOICE™

V95

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> 14.1" XGA Active Matrix Display
> AMD-K6®-2/400MHz Processor
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> 6.0GB Ultra DMA Hard Drive
> Built-in 4X DVD-ROM Drive
> Smart Lithium-Ion Battery

$1845

NP1200B

> 14.1" XGA Active Matrix Display
> AMD-K6®-2/400MHz Processor
> 64MB SDRAM expandable to 256MB
> 6.0GB Ultra DMA Hard Drive
> Built-in 24X CD-ROM Drive
> Smart Lithium-Ion Battery

$1695

NP1200C

> 12.1" SVGA Active Matrix Display
> AMD-K6®-2/400MHz Processor
> 64MB SDRAM expandable to 256MB
> 4.0GB Ultra DMA Hard Drive
> Built-in 4X DVD-ROM Drive
> NiMH Battery

$1495

NP1200D

> 12.1" SVGA Active Matrix Display
> AMD-K6®-2/350MHz Processor
> 32MB SDRAM expandable to 256MB
> 4.0GB Ultra DMA Hard Drive
> Built-in 24X CD-ROM Drive
> NiMH Battery

$1295

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www.sagernotebook.com

Common Features

- AMD-K6®-2 Processor with 3DNow!™ Technology
- 512KB L2 Pipeline Burst Synchronous Cache
- 4MB Video SGRAM
- 2X AGP ATI Rage LT Pro 3D Video (™9820)
- 3.5" 1.44MB Floppy Disk Drive
- 3D Audio and Built-in Wavetable stereo
- 2 Built-in Stereo Speakers and 1 Microphone
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA slots which support ZV-Port & Card Bus
- Infra Red, Wireless Fast IR Interface
- USB Port
- TV-out Port (™9820)
- Other Ports: 1S, 1P, Ext. Keyboards and Ext. CRT
- Jacks: 1 Line-in, 1 Line-out & 1 Microphone
- A4 Size Windows® 95 Keyboard
- Microsoft® Windows® 98
- Carrying Bag and AC Adapter
- Weight with Battey: 7.2lbs
- 11.8"w x 9.8"d x 1.8"h (™1200)
  12.2"w x 9.4"d x 1.7"h (™9820)
- Sager's Umbrella Protection Policy

NP9820 Features

- 100MHz Front Side Bus
- 2X AGP 4MB Video SDRAM
- PC100 SDRAM Memory
- TV-Out Port
- All-In-One Design
- Exceptional Value

NP9820A

> 13.3" XGA Active Matrix Display
> AMD-K6®-2/400MHz Processor
> 100MHz Motherboard
> 64MB PC100 SDRAM expandable to 256MB
> 6.0GB Ultra DMA Hard Drive
> Built-in 4X DVD-ROM Drive
> Smart Lithium-Ion Battery

$1745

NP9820B

> 13.3" XGA Active Matrix Display
> AMD-K6®-2/400MHz Processor
> 100MHz Motherboard
> 64MB PC100 SDRAM expandable to 256MB
> 4.0GB Ultra DMA Hard Drive
> Built-in 24X CD-ROM Drive
> Smart Lithium-Ion Battery

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NP9820C

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- 3D PCI Wavetable Sound Card
- 56K v.90 Voice Fax Modem
- 1.44MB Floppy Drive
- Power 3D Stereo Sound System
- ATX Mid Tower Case
- 104 Win 98 Keyboard, Microphone & Mouse
- MS® Windows® 98
- 98 Gold CD Title Bundle
- Ability Office CD Software
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- 56K v.90 Voice Fax Modem
- 1.44MB Floppy Drive
- Power 3D Speaker System
- ATX Mid Tower Case
- 104 Win 98 Keyboard, Microphone & Mouse
- MS® Windows® 98
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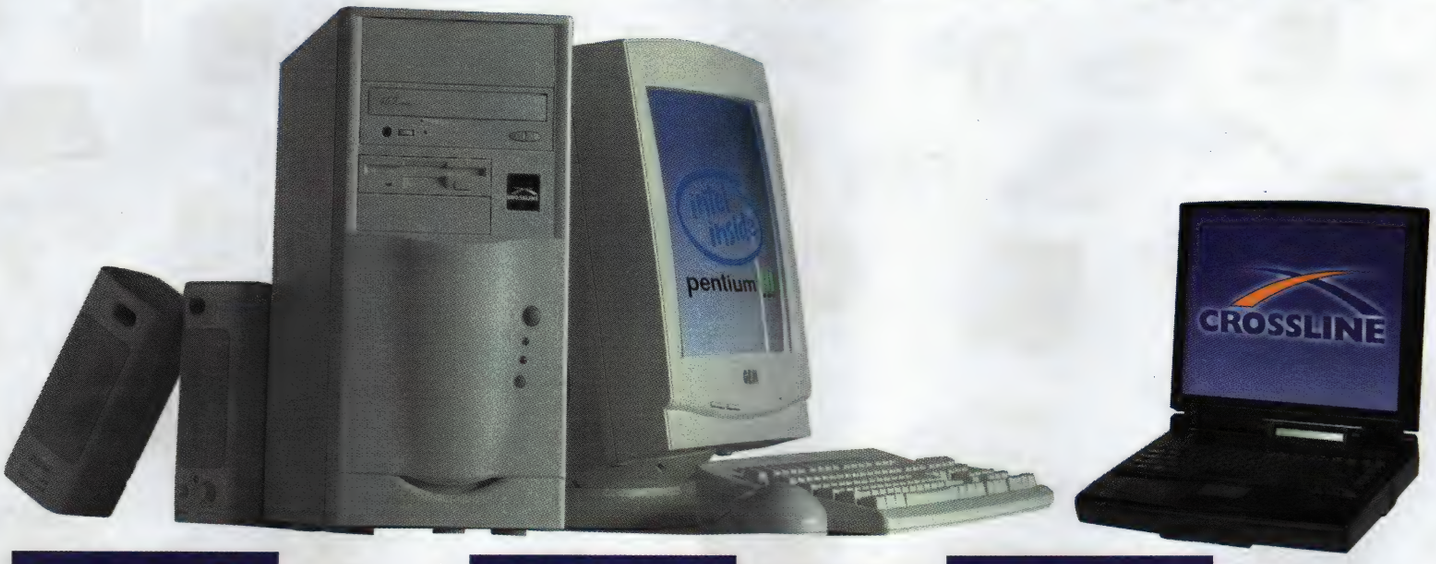
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- 40X CD-ROM Drive
- Aureal A3D™ Vortex 2 PCI Sound Card
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- 3D Sound System with SubWoofer
- ATX Mid Tower Case
- 104 Win 98 Keyboard, Microphone & Mouse
- MS® Windows® 98
- 98 Gold CD Title Bundle
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- 3 Year Limited Warranty
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- 1.44MB Floppy Drive
- 3D Sound System with SubWoofer
- ATX Mid Tower Case
- Multimedia Keyboard
- MS® Windows® 98 & Intelli-Mouse
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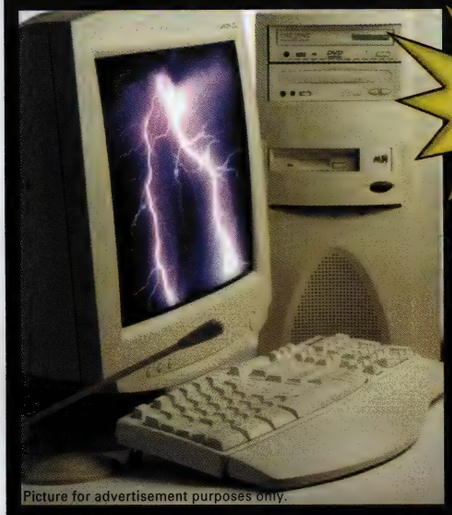
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MS Windows'98 and Internet Explorer 5.0
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56K PCI v.90 Fax/Modem w/Voice
Stereo Microphone and 240W Speakers
Deluxe ATX Tower Case
104-key PS/2 Keyboard & PS/2 Mouse
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Creative Labs Sound Blaster 16 PCI
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56K PCI v.90 Fax/Modem w/Voice
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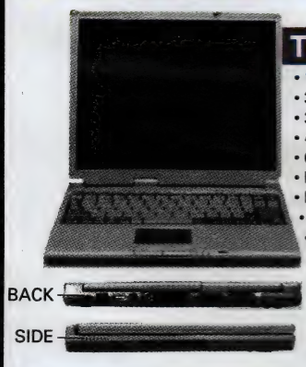
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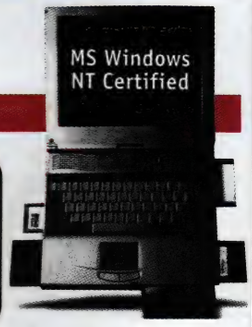
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Model Name	Millennia C400	Millennia C400	Millennia MAX 550
Processor	Intel Celeron processor 400MHz	Intel Celeron processor 400MHz	Intel Pentium® III processor 550MHz
RAM	64MB SDRAM	64MB SDRAM	128MB SDRAM
Hard Drive	4.3GB hard drive*	8.4GB Ultra ATA hard drive*	8.4GB Ultra ATA hard drive*
DVD/CD-ROM	40X var. speed CD-ROM drive°	40X var. speed CD-ROM drive°	40X var. speed CD-ROM drive°
Graphics	8MB nVidia AGP graphics	8MB nVidia AGP graphics	16MB nVidia AGP graphics
Sound System	Wavetable sound and stereo speakers	Wavetable sound and stereo speakers	Wavetable sound and stereo speakers
Network	3Com 3C905 network card	3Com 3C905 network card	3Com 3C905 network card
Micron U	1-year Free^Δ training at Micron University	1-year Free^Δ training at Micron University	1-year Free^Δ training at Micron University
Onsite Warranty	5-year/3-year Micron Power limited warranty	5-year/3-year Micron Power limited warranty	5-year/3-year Micron Power limited warranty
Operating System	Microsoft Windows 98 Microsoft Office Small Business Edition	Microsoft Windows 98 Microsoft Office Small Business Edition	Microsoft Windows 98 Microsoft Office Small Business Edition
Factory Direct Price without monitor	$30/mo.** $999 Business Lease 48 mos.**	$31/mo.** $1,049 Business Lease 48 mos.**	$57/mo.** $1,939 Business Lease 48 mos.**
Upgrade to	128MB SDRAM 15" Micron 500Cx (13.9" display)	128MB SDRAM 17" Micron 700Cx (15.9" display)	13GB Ultra ATA hard drive* 17" Micron 700Cx (15.9" display)
Factory Direct Price with monitor	$38/mo.** $1,269 Business Lease 48 mos.**	$41/mo.** $1,389 Business Lease 48 mos.**	$66/mo.** $2,239 Business Lease 48 mos.**

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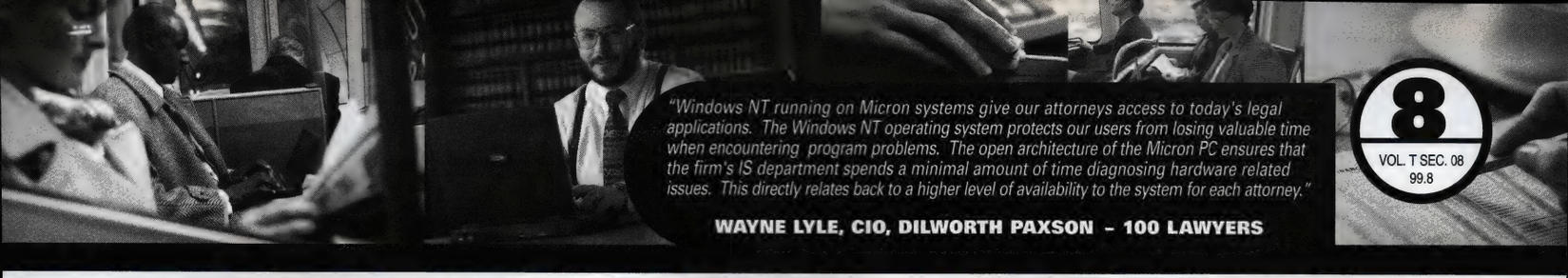
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RAM	64MB SDRAM	64MB SDRAM	128MB SDRAM
Hard Drive	4.3GB hard drive◆ (removeable)	6.4GB hard drive◆ (removeable)	14GB hard drive◆ (removeable hard drive. 28GB option with 2 drives.)
Monitor	12.1" SVGA TFT display	15" XGA TFT display	15" XGA TFT display
Graphics	8MB AGP graphics accelerator	8MB AGP graphics accelerator	8MB AGP graphics accelerator
CD-ROM	24X var. speed CD-ROM drive°	24X var. speed CD-ROM drive°	24X var. speed CD-ROM drive°
Extra Storage	3.5" floppy disk drive (dedicated bay)	3.5" floppy disk drive (dedicated bay)	SuperDisk LS 120
Software	Microsoft Windows® 98	Microsoft Windows NT Workstation 4.0	Microsoft Windows NT Workstation 4.0
Micron U	1-year free[Δ] training @ Micron U online	1-year free[Δ] training @ Micron U online	1-year free[Δ] training @ Micron U online
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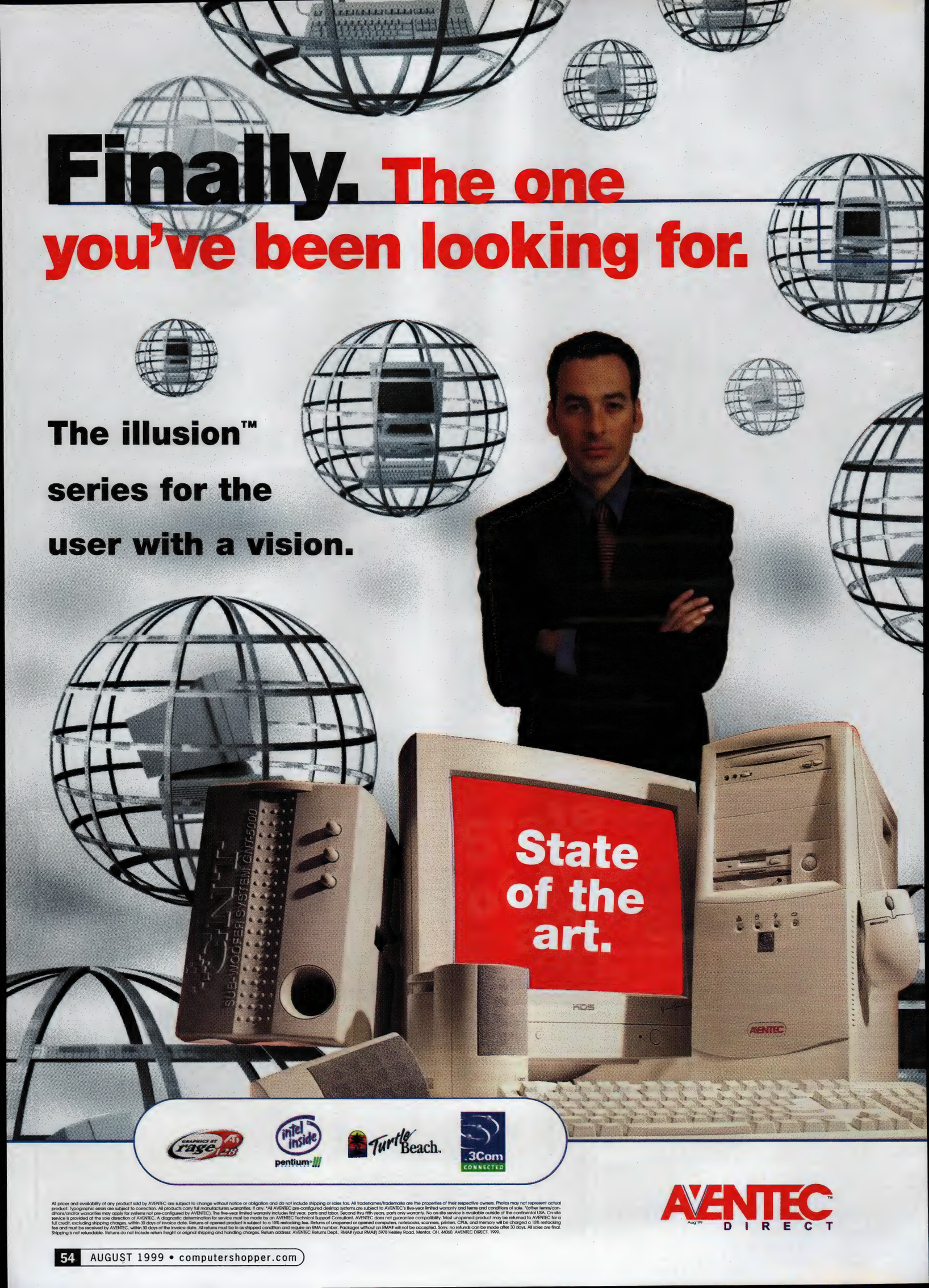


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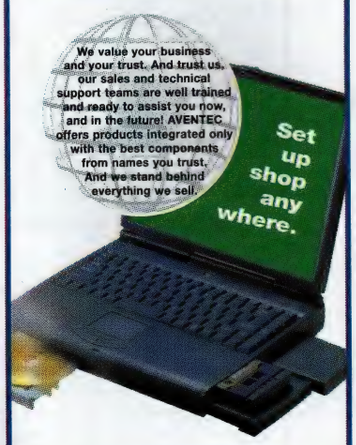
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illusion LXP3/550 $1,999

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PENTIUM III PRACTICALITY

I'm glad someone has addressed the practicality of the Pentium III's functions. (See Michael Slater's May "Silicon Scene" column, "Who Needs Pentium III?" p. 126.) If you don't have the software that supports these features, then you can't benefit from them. The same applies to the Internet—we need faster connections to take advantage of the Net's resources. Shockwave technology is great, but I see few Web sites that run it. Despite the new ways that the Pentium III can enhance the Internet experience, the support must be there for the processor to take advantage of it.

Eric Senger

VOODOO SURPLUS

I'd like to comment on Rik Fairlie's June "Buying Advisor" column, which compared the AMD K6-III with the Intel Pentium III. (See "Rule of Threes: Pentium III vs. K6-III," p. 74.) When the choice of video card became the problem, I'm not sure why you would need a Voodoo3 and a Voodoo2 card. The Voodoo3 can do more than the Voodoo2 by a long shot—and all in one card. The Riva TNT also outperforms the Voodoo2 but lacks Glide support. Last, the Diamond Monster Fusion card mentioned is a Voodoo Banshee, also a 2-D/3-D card that performs better than a single Voodoo2 card, with higher resolutions. If on a budget, you should know which products are needed and which are redundant.

Jason Pannell

WEB-SITE SLOWDOWN

In the May "Alfred Poor's Computer Cures" column (p. 352), Alfred Poor forgot to tell Kathy Murphy that often it's not her computer's CPU, memory, or modem speed that slows Web activity. And her ISP is not to blame. The main contributor to the slowdown is often the site itself, especially if Murphy is trying to access a popular site at peak time.

For example, I find that if I try to access eBay in midmorning to check on the auctions in which I have bids, its server won't even connect me. At other times, such as right after a company makes a good deal available, eBay's site suffers from heavy demand, and the input rate to my computer drops.

Murphy's slowness problem may have nothing to do with her system, and if that's the case, any attempts she makes to improve it will have marginal results at best.

Woody Frederick

CASE STUDY

Don Labriola's June Desktops feature, "Getting Back the Power," was good, but I'd like to take issue with the sidebar "A Total Overhaul, Motherboard and All." (See p. 143.) Here you state that you bought a $27 "chassis." If it includes the power supply, then I disagree with this purchase. The power supply is a critical component of any computer. It is overlooked, as you have done, because it is not sexy and does its job without being obvious about it. When it fails, the results can be devastating. I have a $700 9GB Ultra Wide SCSI hard drive that was ruined after only two months by a power supply that put out 7 volts instead of the 12 required. The resulting amperage burned out the drive motor. My entire batch of computers failed because the power-supply fans quietly quit, and the units overheated.

Cases, too, are important. Cheap ones have sharp edges, and blood on a motherboard is corrosive over time. Motherboards must be anchored and grounded properly. Cheap cases that anchor the board with plastic standoffs can let the motherboard bend when other cards are inserted. Lack of proper grounding can cause unpredictable failures, and you can spend lots more than $27 in phone charges trying to fix something like that. I don't believe that you can get a decent case for $27.

William G. Nabor

A LACK OF COLOR SPACE

Thanks for Lori Grunin's informative piece on the Epson Stylus Photo 1200, a fantastic product. (See the May 24 "Daily Deal" column at *computershopper.com.*) Although it's no speed demon, I've been using an Epson 740 for my proofs for about four months. Compared with my previous use of HP DeskJets, the Epson printers win hands-down.

My only complaint with articles written about graphics manipulation on PCs is the lack of discussion of color space. Most consumers assume that when they buy a scanner or digital camera and then output to a printer, they will get exactly what appears onscreen. Without an idea of what color space is and how to use various Image Color Matching profiles, the average computer user is probably going to be unhappy with the output of scanners or digital cameras, no matter how good the printer is. Maybe an article on this subject would be wise in a time when there is lots of talk about digital cameras replacing conventional film cameras.

Ron Hutchins

COMING NEXT MONTH!

Shopper's Guide to Digital Cameras: Pixel Packers

If you've been contemplating a venture into digital photography or are looking to upgrade to one of the newer high-res 2-megapixel digital cameras, add our upcoming Shopper's Guide to your reading list. With resolutions rising and prices plunging, this is a terrific time to capture a deal. Before you take a shot, turn to our guide for the lowdown on what features are a must and what options are a plus.

Desktops: Penny-Wise Power

In the market for a new PC but hoping to spend fewer hard-earned clams this time? Check out next month's feature on value PCs, where we'll show you what caliber of configuration you can expect for $999 or less. You'll find that with today's costs, you don't have to sacrifice solid performance for a sweet price.

Software: People Trackers

Keeping track of all your appointments, contact information, and other personal data can be a full-time job on its own. Whether you need to be tracking this information at home, in the office, on the run, or all of the above, September's software feature on contact managers will help you identify the right application for the position.

Hardware: Wide-Open Spaces

Whether you download multiple game demos daily and store to disk every MP3 sound byte you come across on the Web, or merely load applications and save text data files, our upcoming feature on huge hard drives is a must read. We've rounded up the latest generation of heavyweight, high-capacity hard drives whose prices won't hit below the belt.

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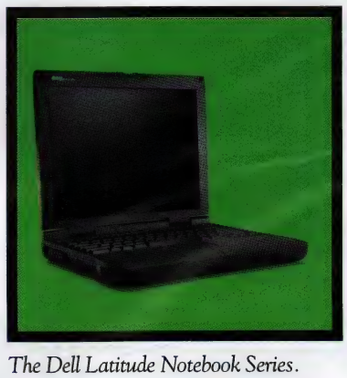
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DELL NOTEBOOK AWARD INFORMATION

- Inspiron 3500 C300XT – *PC World*'s Best Buy in the budget category, 6/99, 7/99.
- Latitude CPi A366XT – *PC World*'s #1 Best Buy Power Notebook, 6/99.
- Latitude CPi Series A366XT–May *Windows Magazine* List Fastest Performance, 5/99.
- Inspiron 7000 A366LT – *PC World*'s Top 10 Power Notebooks, 4/99.
- Latitude CPi Series 366XT – 5-Time Survivor of *PC Computing*'s Annual Torture Test, 3/99.
- Latitude CPi Series D300XT – *PC Computing*'s #1 Best Buy Power Notebook, 3/99.
- Inspiron 7000 A366LT – *PC Magazine*'s Editors' Choice for small businesses, 2/99.

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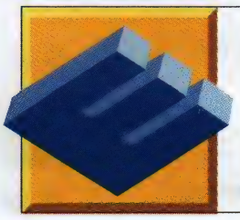
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- 3Com OfficeConnect 8/TPO, add $75.
- 3Com Connect TP 800 8-port TP, add $164.
- 3Com Superstack II Dual Speed Hub 500, 12-port, add $674.
- HP JetDirect 300x External 10/100 Base TX Printer Server, add $245.
- 3Com Sportster 56K Capable[11] v.90 External Modem, add $129.
- Princeton 15" Black Monitor, add $229.
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DELL SERVER AWARD INFO

- *Network Computing*'s "50 Best Products of the Year" – Dell PowerEdge 6300 (Enterprise Server), 5/99.
- *Network Magazine* "1999 Products of the Year" – Dell PowerEdge 2300 (Workgroup Server), 5/99.
- *Network World* "World Class Award" – Dell PowerEdge 2300, 6/98.
- *Computer Shopper* "Top 100" – Dell PowerEdge 2300, 11/98.
- *PC Computing*'s "the 'A' List" – Dell PowerEdge 6300, 11/98.
- *LANTimes* "The Best of *LANTimes* Over $25,000"– Dell PowerEdge 6300, 9/98.

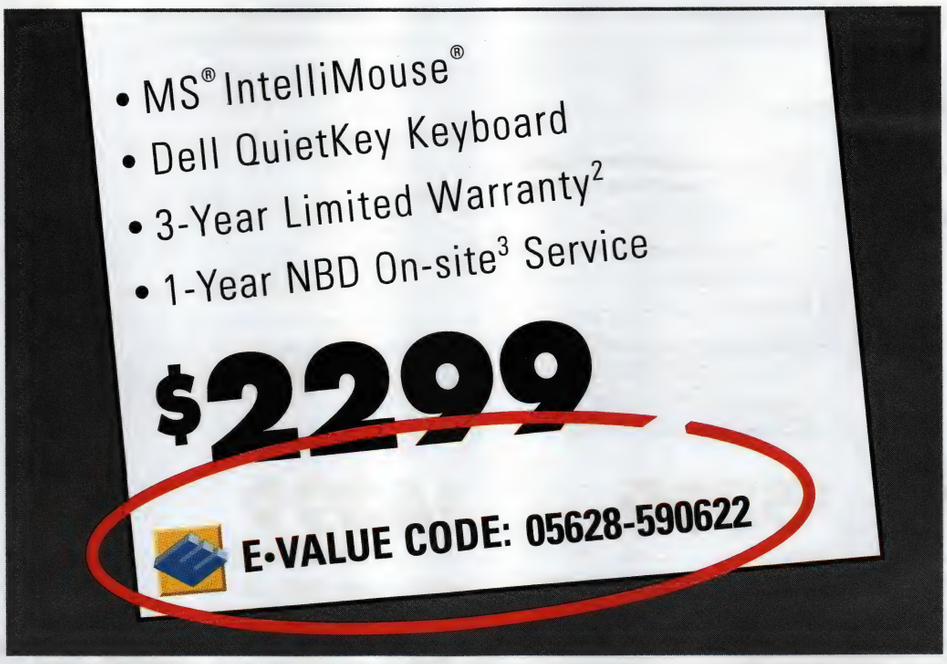
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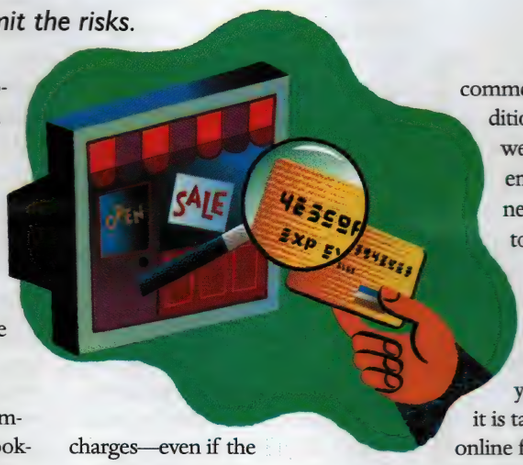
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SMART SHOPPER

NEWS

Online Vendors Take Fraud on the Chin

New tools should help limit the risks.



As the information economy kicks into high gear, more and more consumers are becoming comfortable making online purchases with a credit card. But although using a credit card provides protection for the consumer, Web merchants are left to bear most of the risk and cost of fraud.

Consumers can protect themselves by using a credit card, looking for seals of approval from the Better Business Bureaus, or reporting fraud to their credit-card issuer. Vendors have no such options.

Credit-card companies require vendors to pay for any fraudulent charges—even if the credit-card company approves the transaction. Vendors must also pay a $10-to-$25 penalty per incident. What's more, vendors that are consistently scammed risk losing the right to accept credit cards entirely.

RISK MANAGEMENT FOR VENDORS

According to HNC Software's chief, Robert North, fraud amounts to more than 10 percent of all e-commerce transactions. For traditional retail, fraud losses are well under 1 percent of revenues. HNC has been using neural-network technology to detect fraud in retail purchases for the last six years. Now it is targeting online fraud.

HNC's new eFalcon uses a variety of clues to assess an online customer's legitimacy. When a customer submits a card, the number is instantly sent to the eFalcon database and checked against the customer's purchase history. If the card number isn't on file, the software will compare the purchase against the buying patterns of its database of cardholders.

HNC's eFalcon will also monitor how a surfer shops for suspicious behavior. Most shoppers look around a site a while before buying something, whereas crooks tend to jump to the order process.

The software will then score each transaction according to its risk for fraud. Vendors will be able to select the level of risk they wish to accept.

ACTIVE LINKS

www.cashtechnologies.com..... *Cash Technologies*
www.hnc.com..... *HNC Software*
www.nclnet.org..... *Internet Fraud Watch*

Cash Technologies is working on another deterrent to credit-card fraud—getting your eyes checked. The firm has partnered with Sensar to build an e-commerce software platform that uses iris recognition to verify a cardholder's identity. Similar to a fingerprint, the colored portion of the human eye is unique, containing some 266 identifiers.

Another less sophisticated anti-fraud technique involves restricting purchases from free Internet accounts like those from Hotmail or Juno, which are frequently used by scammers because they are hard to trace.

Although such tactics might seem severe, they can help Web merchants protect themselves from disreputable shoppers. In so doing, such measures can sustain a healthy e-conomy. ***—Dan Costa***

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Computer Shopper Best Buys TOP 25

Looking for the very best choices in systems, hardware, and software? We've whittled down our Best Buy award winners from the past three months to create our Top 25 picks. For product details, turn to page 92.

DESKTOPS
Dell Dimension L400
Micron ClientPro CS
Quantex M433c
Quantex SM550
CyberMax Enthusiast KIII 450 Pro

MOBILE
Quantex I-1511
Dell Latitude CPt C333GT
Micron TransPort NX
Palm V
Toshiba Portégé 3020CT

HARDWARE
Castlewood Orb
Nikon Coolpix 950
Microtek ScanMaker X6 USB
Sonigistix Monsoon MM-700
Epson Stylus Photo 750
3dfx Voodoo3 3000



Castlewood Orb



Star Wars: Episode I Racer

SOFTWARE
Bryce 4
CorelDraw 9.0
Star Wars: Episode I Racer
Lotus SmartSuite Millennium Edition 9.5
Norton SystemWorks 2.0
Sid Meier's Alpha Centauri
Ulead Media Studio Pro 5.2

NETWORKS
Dave 2.1
Intel Express 550T Routing Switch

ILLUSTRATION BY TIM COOK

From Slides to Scans In Three Easy Steps

Tracking Down a PC, Transparency Scanner, and Photo Printer for a Computer Rookie

BY RIK FAIRLIE

CHALLENGE

USER PROFILE

Edward Palecki, a computing novice and experienced photographer

COMPUTING NEEDS

A desktop, scanner, and printer for turning a lifetime of 35mm slides into digital files

Edward Palecki, a retired airline exec and prize-winning photographer, will soon be clicking a mouse more often than a shutter-release button.

That's because Palecki's son, Mike Palecki, plans to surprise his father with a complete system—a muscular PC with photo-editing software, a capable transparency scanner, and a photo-centric printer—that will enable him to digitize thousands of slides taken during his 30-year stint with Trans World Airlines. The occasion? Palecki senior just celebrated his 50th wedding anniversary with his wife, June.

"Over the years, Dad has compiled about 10,000 35mm slides of the family and the many places he has visited in his world travels," Mike says. His father is currently sorting through those slides to produce several "best of" programs that he intends to transfer to videotape.

But Mike's got a better idea. "I think my father would enjoy digitizing his slides, which would allow him to print and edit images and e-mail photographs to the family," he says.



Gateway Performance 450

The budget for this generous gift is fairly flexible. Mike had originally aimed to spend about $2,000 but quickly understood that he'd need to invest a little more for all three components. More important than price is a system that will be reliable and approachable. "My dad isn't very computer-literate," he says. "Our priority is that the system be user-friendly and also allow my dad to achieve quality results."

So for the system itself, I decided to go with a 450MHz Pentium III processor rather than a top-flight 550MHz model, a reasonable compromise between the fastest clock speed and a better price. All Pentium IIIs support Intel's Streaming SIMD Extensions, which add extra zip to certain high-end multimedia applications like Adobe Photoshop. Mike's dad probably won't delve headlong into heavy photo manipulation initially, but it's a safe bet that his interests will become more sophisticated once he discovers the fun of digital image editing. Consequently, the Pentium III's capabilities are likely to come in handy a year or so down the road.

I decided to go with 128MB of RAM because in general, photo manipulation requires a considerable amount of system memory. Equally consequential, especially when loading large image files, is the hard drive's rotational speed. A drive with a 7,200-rpm motor (rather than 5,400 rpm) will paint the images onscreen a little faster. Assuming that Edward will be organizing and storing photos on removable media (more on that later), I planned to shop for a midrange but still substantial drive of between 10GB and 13GB.

As for the monitor, I wanted a 17-inch monitor with a dot pitch of at least 0.26mm, ensuring that it would be capable of a crisp, clean image.

Because photographic images are not 3-D intensive and Mike doesn't anticipate that his father will take up Quake III anytime soon, we agreed that a hotshot 3-D accelerator would be overkill. Besides, most Pentium IIIs ship with a very capable graphics card, so there wouldn't be much reason to upgrade. A good audio system didn't make the priority list, either, providing another way to save a few bucks.

Mike does want removable-storage capabilities, however, and what better way than a platform that's compatible with most existing computers? CD-Rewritable (CD-RW) technology enables users to jam 650MB of data on a single disc, which can be read by just about any computer with a CD-ROM drive. Upgrading to a built-in CD-RW drive from a CD-ROM (when available) costs $200 or less, and the technology is becoming much more user-friendly than it was a few years back.

As for a photo-editing application, Adobe PhotoDeluxe is a good package for neophytes. It has a nice selection of useful tools and extensive step-by step guides. What's more, this package comes bundled with many scanners, which means Mike won't need to invest in image-editing software—until his dad is ready for the industrial-strength Photoshop 5.0.

Given these considerations, my first choice for a consumer-friendly, graphics-capable PC was the slick Sony VAIO Digital Studio PC, a system that was designed from the motherboard up to transcend traditional business apps (and not unintentionally, to work well with Sony's collection of cameras, video cams, and memory media). The new Digital Studio desktops, for instance, include Sony's i.Link IEEE 1394 connection that shuttles data from peripherals like camcorders to PCs at a rate of 400Mbps.

Sony also bundles a raft of special features that target video and photo editors. For instance, its PictureGear image-management software makes it a snap to find images on your hard drive. The program stores files as a thumbnail image rather than a filename, and it also helps manage and maintain photos.

When I checked out the product lineup, however, I found that Sony offers somewhat limited customization and that its sales reps were a little shaky on product specs. The Digital Studio PCV-R526DS, for instance, employs a

SOLUTIONS

THE ADVISOR'S CHOICE

Gateway's Performance 450 is a solid powerhouse priced right and has the backing of a consumer-friendly merchant well-skilled in service and support. For just $1,856, this system offers a 450MHz Pentium III engine, 128MB of RAM, a 13.5GB 7,200-rpm hard drive, a zippy Voodoo3 3000 graphics card, and a Philips CD-RW drive. Add in the **Epson Perfection 636** flatbed scanner for quality transparency scanning at a reasonable price of $398. Finish off the digital darkroom with a $299 **Epson Stylus Photo 750** color inkjet, an inexpensive photo-centric model that pumps out awesome prints. Total cost for the trio: $2,553.
Gateway: 800-846-4208, *www.gateway.com*
Epson America: 800-463-7766, *www.epson.com*

RUNNERS-UP

The graphics-oriented **Sony Digital Studio PCV-R526DS** is a solid multimedia machine, powered by a 450MHz Pentium III CPU, 128MB of RAM, a DVD drive, and a 10GB hard drive. But its hard drive isn't top-speed, and Sony offers no CD-RW option in this model. At $1,948, it's a great deal for those who work with video, but it's missing some key components. The **Quantex QP6/450 SM-1x** packs the same processor and RAM, but offers a bigger—though not faster—13GB hard drive and a CD-RW drive for $1,911. Nonetheless, the QP6/450 SM-1x is a mighty tempting package.

450MHz Pentium III processor, 128MB of RAM, a DVD drive, and a 17-inch monitor with a retina-pleasing 0.25mm dot pitch. But the sales rep I spoke with didn't know if the 10GB hard drive was a 5,400-rpm or a 7,200-rpm model, nor could he tell me who manufactures the drive. Worse, the DVD drive cannot be upgraded to a CD-RW drive.

The PCV-R526DS costs a reasonable $1,948 (after a $100 mail-in rebate from Sony). But though the system would be attractive, especially to those who work with video, its lack of customization and a comparatively brief one-year warranty pushed me onward.

I next checked out Quantex, whose PCs have been earning winning reviews by our writers lately. I clicked straight to its home multimedia section and went to work on a 450MHz Pentium III system. The QP6/450 SM-1x proved eminently configurable: Building on its Pentium III processor, I increased the RAM to 128MB, bumped up the hard drive to 13GB, and threw in a Sony CD-RW drive. Existing components include a 17-inch NEC monitor with a tight 0.25mm dot pitch and a 3dfx Voodoo3 2000 graphics accelerator. A Quantex sales rep was quick with the finer points, such as the monitor's dot pitch, and the manufacturer and speed of the hard drive. He also told me that the CD-RW drive has proved so popular that the units were on back order, and it would be three weeks or so before Quantex could deliver a system. For $1,911, the QP6/450 SM-1x is a great package. But its hard drive topped out at 5,400 rpm, which was just enough to steer me to another Web site—one where cow spots abound.

Gateway has long been a consumer-friendly vendor that builds solid systems and, most important for Edward Palecki, is known for its above-average service and support. The biggest surprise: I was able to find exactly what I wanted for less than expected.

The Gateway Performance 450 has all the right parts: a 450MHz Pentium III engine, 128MB of RAM, a 13.5GB 7,200-rpm Western Digital hard drive, and a Voodoo3 3000 graphics accelerator. I upgraded the monitor to a 17-inch Diamondtron model with 0.26mm dot pitch and added a Philips CD-RW drive. The only component I couldn't customize the way I wanted was the graphics accelerator. The Voodoo3 card is a little more firepower than necessary, but a Gateway rep told me that it's the least expensive one available on this PC. Still, it's a sweet system for $1,856.

The Performance 450 comes with Gateway's standard warranty of three years parts and labor with one year of onsite service. The rep I spoke with was knowledgeable and quick, reflecting Gateway's solid-as-a-steer reputation for service and support. Sold!

As for the slide scanner, finding an affordable unit that would yield images satisfying to a sophisticated photographer proved challenging. One of the better slide models on the market is the Nikon Coolscan III. It's a film scanner that would please the most picky of photographers, but at $900, it's a bit of a budget buster.

A more reasonable option is the Epson Perfection 636, a flatbed scanner known for its ease of installation and setup. The Perfection serves up 36-bit color and an optical resolution up to 600x2,400 dpi. It also includes Adobe PhotoDeluxe. An optional transparency adapter is $99 extra, bringing the price to $398.

The printer was an easy pick. The $299 Epson Stylus Photo 750 color inkjet is an excellent unit that yields precise dot size at a resolution of 1,440x720 dpi. The Stylus Photo 750 takes home photo printing to a new level.

The total cost of this anniversary special is $2,553. It should make a truly memorable gift for Dad, but there's just one question: What's Mom getting?

If you want help making a smart buying decision, e-mail the Buying Advisor at rik_fairlie@zd.com.

REBATES!

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SAVING SENSATIONS

Let Microsoft's SideWinder Force Feedback Pro joystick massage your palms while you play. From subtle vibrations to powerful jolts, the force-feedback technology forces you into the game. The SideWinder Force Feedback Pro comes with two games: Microsoft Urban Assault, plus three months' free Internet gaming with the Microsoft Fighter-Ace Online multiplayer game. It also includes a mail-in rebate good for $30 U.S. and $45 Canadian. The offer expires on November 1. Average price before rebate is $145.

UMAX BUCKS

Adding scanning capabilities to your office is easier and cheaper than ever with this business scanning solution from Umax. The Astra 2400S comes bundled with a comprehensive assortment of software for Windows and Macintosh, including Adobe Acrobat, PageMill, and Photoshop LE; Presto PageManager 98 and PageType; and the VistaScan scanner driver. Purchase by July 31 and receive a $50 mail-in rebate. The Astra 2400S sells for about $350 before rebate.

COMMAND YOUR OPSYS

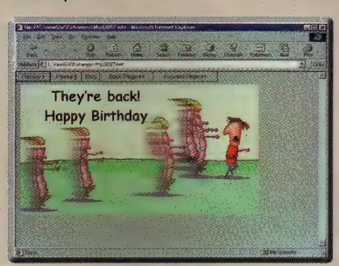
Upgrading to a new operating system, adding onto an old one, or just feel like giving an alternative a test spin? Check out V Communications' System Commander Deluxe. This utility lets you engage in any of these activities safely. Buy by December 31 and receive a $20 mail-in rebate. Before rebate, System Commander Deluxe sells for approximately $70.

SNAP AND PRINT

Control the means of production—from snapping an image to printing hard copies—with Hewlett-Packard's PhotoSmart digital camera and printer. Buy both an HP PhotoSmart C30 digital camera and an HP PhotoSmart printer, and receive a $100 mail-in rebate. Purchases must be made by July 31, and rebate requests have to be postmarked by August 31 for you to claim your cash.

IBM CASH-BACK CORNUCOPIA

If IBM were a retail store, there'd be banners on the windows screaming out the assortment of discounts available. IBM offers mail-in rebates on a wide variety of its products through July 31. Buy a ThinkPad 770 and receive $300 back. A PC 300 PL desktop or mini-tower delivers returns of $75, and an IntelliStation EPro fetches $250 back. The corporate crowd gets a rebate of $200 on the Netfinity 5000 server, and rebates of $600 on the Netfinity 5500 and 5500M10.



Microsoft Graphics Studio Home Publishing 99

For notebooks, don't forget to consider an internal IDE 100MB Zip drive, a 56W adapter, a Selectabase III or Selectabase for a ThinkPad 600 or 770, or an Enhanced Port Replicator for rebates of $25. All rebate requests must be postmarked or faxed by August 31.

PUBLISH OR PERISH

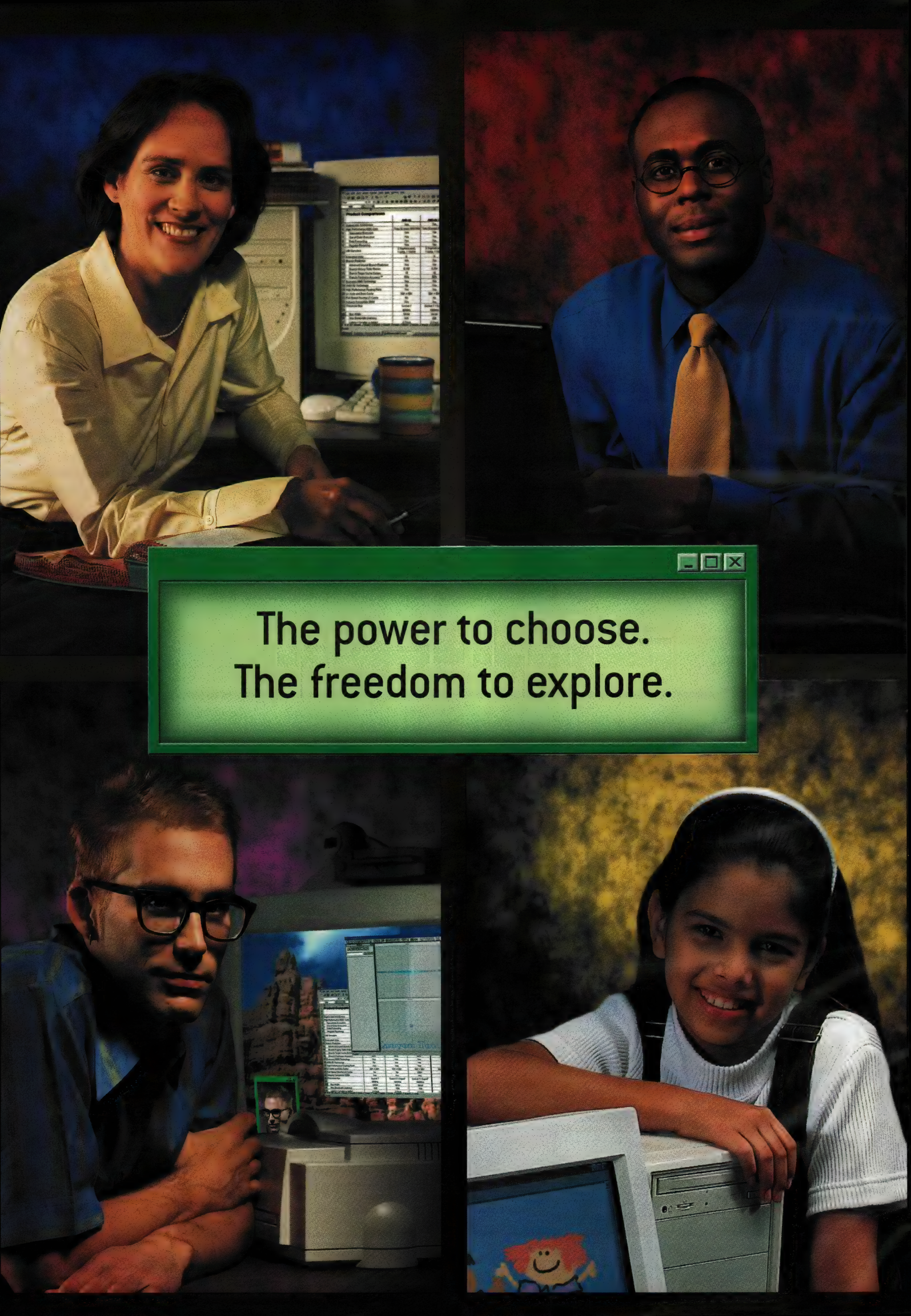
Are design ideas for finger puppets and party invitations clawing their way out of your imagination, searching for some way to be realized? Microsoft seeks to set them free with Microsoft Graphics Studio Home Publishing 99 and Home Publishing Suite 99. Both let you engage in the gamut of home DTP activities, and Suite 99 also includes Picture It 99 photo-editing software. Home Publishing 99 comes with a $20 mail-in rebate, and Suite 99 comes with a $30 rebate. Both rebates are good through September 30. Home Publishing averages $50 before rebate, and Suite 99 is roughly $80 before rebate.

CASH OR CAMERA?

Epson poses a tough question for its customers: Would you rather have a Polaroid camera or $30? Ponder the dilemma while buying an Epson Perfection 636U Color Scanner, which comes with either a $30 mail-in rebate or a Polaroid OneStep camera with a NotePad twin-pack of film, a $70 value. Don't deliberate for too long—purchases must be made by July 31 and claims postmarked no later than August 31.

—Jon Halpin

SECTION CONTINUES ON PAGE 80


The power to choose.
The freedom to explore.

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Everyone has different computing needs. Some want a system that can manage demanding business applications. Others want one that will leverage all the potential of the Internet. Regardless of their needs, everyone wants a system that lets them explore the many possibilities of today's computing. That's why AMD gives you choices. Incredible choices in power and performance. Take a look at what we have to offer. You'll discover how the power of choice translates into powerful computing.

CUTTING-EDGE PERFORMANCE THAT'S A CUT ABOVE.

The AMD-K6®-2 processor with 3DNow!™ technology is the smart choice when you need cutting-edge



performance to tackle demanding computing tasks. Thanks to 3DNow! technology, lifelike images and graphics virtually jump off the screen. Hear the incredible big-screen sound and experience the movie-quality video. And fly through 3D Web environments with smooth imagery and realistic sound. The AMD-K6-2 processor. It's the smart choice for you and your PC.

TAKING PERSONAL COMPUTING TO A HIGHER POWER.

Unleash the power of AMD-K6-III with 3DNow! technology and astounding things happen. Processing power for the home and business is taken to a whole new level. Today's gaming,



productivity and Internet software is enhanced for rich images, vibrant graphics, and big-screen sound and video. Business users have all the muscle they need for network management, Internet and business applications. And even the most memory-intensive applications process at incredible speeds. In short, the AMD-K6-III processor is one powerfully different processor.

WORKING WITH TOP PARTNERS TO HELP YOU PERFORM AT YOUR BEST.

AMD works with the top names in the industry to bring you the most powerful computing solutions available. In fact, nine of the top ten manufacturers use AMD processors. On the following pages, you'll find the best and brightest products our partners have to offer. And of course, you'll find one that fits your needs perfectly. After all, each one is powered by an AMD processor.

AMD

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PRESARIO 5600s INTERNET PC

	PRESARIO 5600s-475/2 INTERNET PC	PRESARIO 5600s-475/2 INTERNET PC	PRESARIO 5600s-475/2 INTERNET PC
	475 MHz AMD-K6®-2 with 3D Now!™ Technology	475 MHz AMD-K6-2 with 3D Now! Technology	475 MHz AMD-K6-2 with 3D Now! Technology
	64 MB SyncDRAM expandable to 384 MB	128 MB SyncDRAM expandable to 384 MB	128 MB SyncDRAM expandable to 384 MB
	10.0 GB UltraDMA Hard Drive[1]	10.0 GB UltraDMA Hard Drive[1]	13.0 GB UltraDMA Hard Drive[1]
	6X DVD-ROM Drive[4]	6X DVD-ROM Drive[4]	6X DVD-ROM Drive[4]
	2X AGP Graphics w/8 MB SDRAM	2X AGP Graphics w/8 MB SDRAM	Savage4 Pro 16 MB 2X AGP Graphics Card
	Creative Labs Sound Blaster™ 1373	Creative Labs Sound Blaster 1373	Creative Labs Sound Blaster 1373
	56K ITU V.90 Modem[2]	56K ITU V.90 Modem[2]	6.0Mb Max Digital Modem[5]
	JBL Pro Amplified Speakers	JBL Pro Amplified Speakers	JBL Pro Amplified Speakers
	Microsoft® Featured Home Collection + MS® Word	Microsoft Featured Home Collection + MS Word	Microsoft Featured Home Collection + MS Word
	Microsoft Windows®98	Microsoft Windows98	Microsoft Windows98
	Compaq CV515 15" Monitor (13.8" VIA)	Compaq CV715 17" Monitor (16.0" VIA)	Compaq CV715 17" Monitor (16.0" VIA)
	$1199‡ As low as **$34 per month**[†]	**$1399**‡ As low as **$39 per month**[†]	**$1549**‡ As low as **$44 per month**[†]
Personalize by choosing:	Compaq CV715 17" Monitor (16.0" VIA): Add $70	Read/Write CD-ROM Drive (4X/2X/24X)[6]: Add $199	Read/Write CD-ROM Drive (4X/2X/24X)[6]: Add $199
	128 MB SyncDRAM: Add $120	Compaq CV915 19" Monitor (18.0" VIA): Add $190	Compaq CV915 19" Monitor (18.0" VIA): Add $190
	Read/Write CD-ROM Drive (4X/2X/24X)[6]: Add $199	Home Phoneline Networking[7]: Add $39	Home Phoneline Networking[7]: Add $39



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24X Max CD-ROM Drive[3]	24X Max CD-ROM Drive[3]	4X DVD-ROM Drive[8]
ATI 3D Rage LT Pro™ Hardware Accelerated 3D Graphics with 8 MB Video Memory	ATI 3D Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory	ATI 3D Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory
56K ITU V.90 Modem (PCI)[2]	56K ITU V.90 Modem (PCI)[2]	56K ITU V.90 Modem (PCI)[2]
High-Capacity Lilon Battery	High-Capacity Lilon Battery	High-Capacity Lilon Battery
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1 MB L2 Pipeline Burst Cache	1 KB L2 Pipeline Burst Cache	1 MB L3 Pipeline Burst Cache
MS® Featured Home Collection & Windows 98	MS Featured Home Collection & Windows98	MS Featured Home Collection & Windows98
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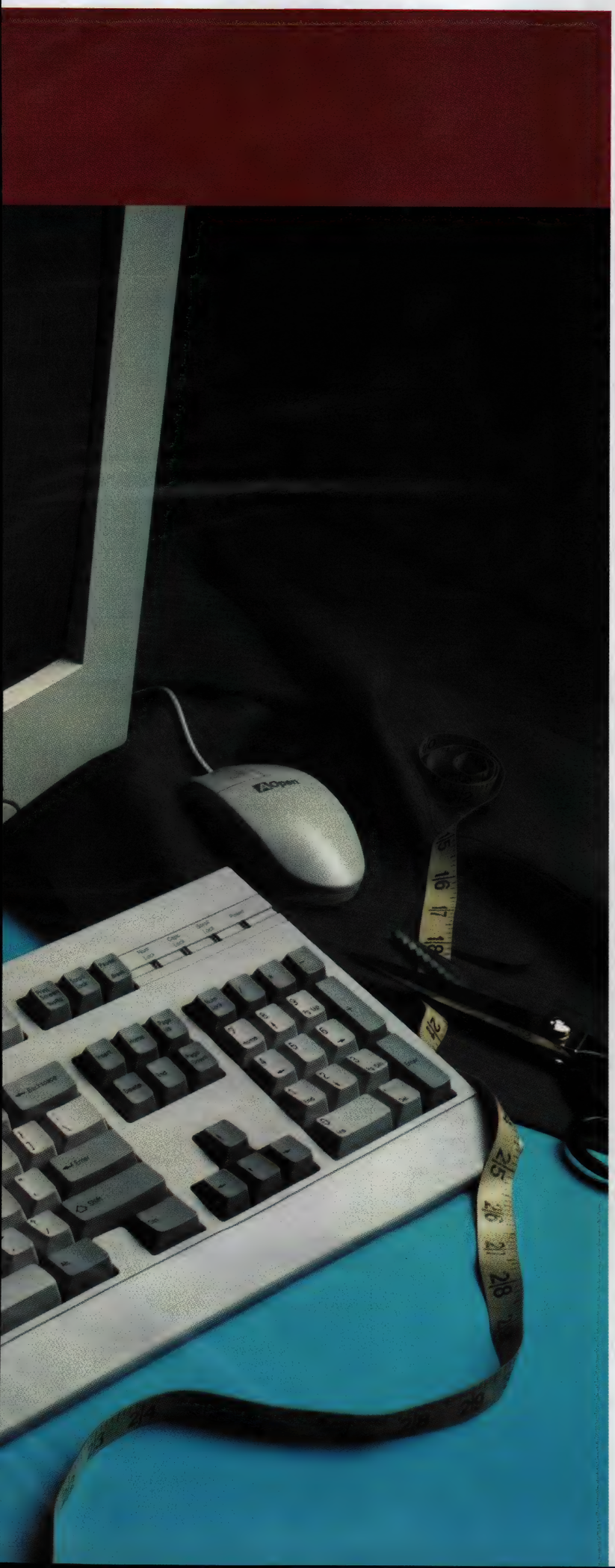
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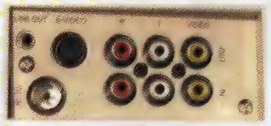
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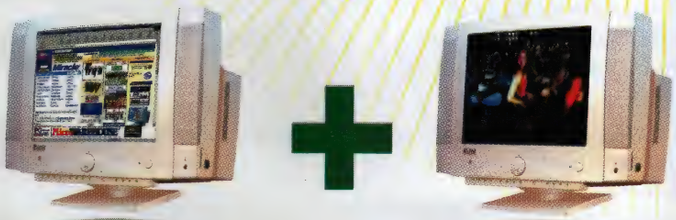
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- Cable or TV antenna connecter
- Memory Free

ITEM #	SIZE	MAX.RES	DOT PITCH	TV FEATURES	CASE COLOR	S-VIDEO
MT708	17"/16"	1280x1024	0.27	90 Channel	Beige	YES
MT707	17"/16"	1280x1024	0.27	90 Channel	Black	YES
MT508	15"/13.8"	1024x768	0.28	90 Channel	Beige	YES
MT507	15"/13.8"	1024x768	0.28	90 Channel	Black	YES
MT408	14"/13.5"	1024x768	0.28	33 Channel	Beige	NO
MT407	14"/13.5"	1024x768	0.28	33 Channel	Black	NO

All MonitorTV™ include Stereo Speckers, Remote Controls, Audio/Video input/output.

9"-14" Mono Monitors, 10"-17" Color Momitors Available. See our website for details.

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SHOP RIGHT SAVE A BUNDLE

DISCOVER SOME OF THE BEST-KEPT BARGAIN-HUNTING SECRETS *BEFORE* YOU MAKE YOUR NEXT PC PURCHASE.

BY MITT JONES

As hardware prices continue to plummet, it's conceivable that you could pick up your next PC at your friendly neighborhood Saks Fifth Avenue and feel you're getting a pretty good deal. However, whether you need a new system, a bigger hard drive, or simply a new utility or two, how much you pay and what you get for your money can vary considerably, even in today's ultracompetitive climate. So to make your bargain-hunting as seamless as possible, we snooped, prodded, and prowled about to uncover the most lucrative shopping secrets and to gather the best money-saving ideas.

The most notable changes in the shopping climate this year involve the continuing explosion of e-commerce and online resources. Some merchants, in keeping with their traditional business models, still seem to favor phone-based sales. Many others, however, are moving toward a more streamlined, cost-efficient, Web-centric model. This migration has its advantages for savvy shoppers, including the generally lower prices it has helped create. Some online merchants even claim to be selling many or all items at or below wholesale cost.

For shoppers interested in getting more hardware and software for their money, lower prices and convenient, Web-based merchants are obviously good news. Even so, finding the right merchants and bargains may require a bit of help. That's where we come in.

This month's feature is packed with helpful hints on how to get the best deals and quality when buying both used and new computer equipment. We'll tell you where to find those bargain basements and factory outlets, and give you some sage advice about buying via auction. You'll discover how to dig for deals both on the Web and over the phone. Plus, in our Buyer's Profile sidebars, real shoppers in the home-office, small-business, and corporate sectors share their best secrets for big savings.

SOMETHING OLD

One of the best ways to save begins with acceptance—acceptance of the idea that most refurbished equipment isn't inferior. In fact, particularly with systems, items sold as refurbished were often returned immediately or nearly immediately after being bought, and most can be had at considerable discounts. One reseller, Computers4Sure, was selling refurbished 300MHz Toshiba Tecra 8000 notebooks



ILLUSTRATION BY GARRY NICHOLS



at $2,454. The same model was selling new for an average of about $3,350 among 14 resellers we checked.

The like-new refurb market results at least partially from legal judgments against companies that have represented slightly used merchandise as new. Given the reality that a certain amount of equipment will be returned, manufacturers, retailers, and direct marketers must always deal with the pesky problem of what to do with this equipment. A certain percentage of returns may be dismantled so that their parts can be used in support of maintenance programs and the like. More often, however, returns are refurbished, which usually involves not only a cosmetic refreshing but also full testing, appropriate repairs, and restoration of the original hard drive image. Depending partly on who does the refurbishing—the manufacturer or a third party—documentation, software, and even shipping boxes may also be refreshed to help the refurbished equipment regain that factory-sealed gloss. The refurbished items are then remarketed, either directly or through resellers, usually at heavy discounts.

The warranties offered with refurbished equipment can vary by the manufacturer of the product, by the company that remanufactured it, and by the company selling it. Some refurbished products sell with the same length of warranty that accompanied them new, but warranties of only 90 days are also common on refurbished systems. Where warranties are concerned, longer is always better, but hardware problems typically show up quickly, well within the first 90 days. So even a 90-day warranty probably shouldn't scare you off if you find the equipment you want at the right price.

You'll find potentially more important differences in the length of the money-back period honored, if any. Most companies selling refurbished equipment allow at least a week to look over the equipment; others allow no such period.

Sources for refurbished equipment are more numerous than ever. Even most merchants that concentrate on new product sell returned equipment here and there. For instance, as we worked on this article, refurbished external 100MB Iomega Zip drives were popping up for as little as $69. For the most part, however, you'll have to hunt for refurbished equipment if you want to reap its advantages.

FACTORY-FRESH

Factory outlets—both physical and online—are a common way for manufacturers and OEMs to liquidate their refurbished goods. Even relatively small OEMs such as Comtrade and Royal Computer often maintain a storefront, and it can pay to find out if any local manufacturers or OEMs have factory outlets in your area. Larger companies are increasingly making their refurbished stock available through online factory outlets, or through toll-free sales from their retail factory-outlet operations.

Dell has long sold refurbs through its outlet store in Austin, Texas, but the same stock is available to buyers nationwide. You can browse a list of equipment on the company's Refurbished Online Outlet, which you can easily locate through Dell's home page, but you'll need to call the toll-free sales number (888-798-7561) to find out exactly what's available. Dell's refurbished systems reportedly even get new boxes, and the company backs the systems with the same three-year warranty and 24-hour technical support offered with new systems. The money-back period shrinks somewhat, from 30 days for new systems to 14 for refurbs.

Most of Gateway's 150 or so Country Stores maintain no inventory for sales, existing solely to allow shoppers a firsthand look at a Gateway system before buying one. (See the Desktops Trends page, "Gateway Sees Greener Pastures in Urban Stores" for more details on Gateway's Country Stores expansion plans.) Three of the stores also liquidate Gateway's refurbished stock, and the same stock is available to anybody who calls Gateway's factory-outlet toll-free number. Like Dell, Gateway sells the systems in like-new condition and backs them with the same warranty you'd get with a new system, including one year of onsite service. With Gateway, however, you'll have only five days after receiving your system to decide whether you want to keep it.

Micron Electronics and WinBook Computer Corp. also offer virtual factory outlets of sorts: Both list available or potentially available inventory on their Web sites, but as with Dell and Gateway, you'll need to speak to a salesperson to order. Micron backs its refurbished PCs with its usual new-system warranty, but don't place an order if you're feeling undecided: The company provides no money-back period for refurbished systems.

✔ Get on the Plan

Some companies offer a price-protection plan under which you'll receive a refund if they lower the price of your system within 30 days of purchase. You'll have to ask for this one, though.

BUYER PROFILE

Home Economics

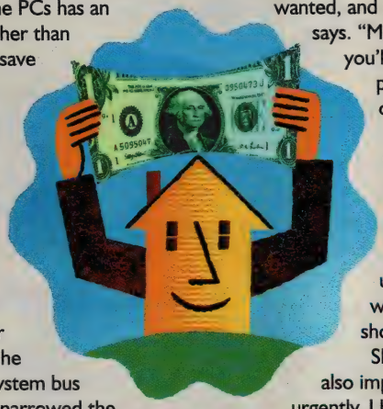
There's often a strong correlation between shopping habits at work and at home. That's certainly true with Keith Morse, a field-service manager for Data Technology, who spends part of his working day swapping out motherboards and processors and upgrading PCs to ensure Y2K compliance.

At home in Greensboro, N.C., Morse takes an equally hands-on approach to keeping his family's systems up to date. For example, one of his four home PCs has an aging 133MHz Cyrix processor. But rather than toss out the entire system, he plans to save money by purchasing a new motherboard.

"I'm going with an AMD 300MHz K6-2," he explains. "I try not to chase the latest technology, because you pay a premium price, and I don't need that much power. Plus, the prices on the 300MHz processors have come way down."

Morse was initially considering a less expensive 266MHz processor, but after doing a little research, he realized that he could reap the benefits of a 100MHz system bus by going with a 300MHz K6-2. He has narrowed the search to motherboards that are outfitted with an AMD K6-2 processor, which also provides 3-D acceleration from the chip's 3DNow technology.

"I'll keep the cabinet and power supply," Morse says. "And I'll also keep the 32x CD-ROM drive, which is fast enough for the time being." He says there's also no need to replace the floppy drive or the external Zip drive.



ILLUSTRATIONS BY TIM COOK

Before buying, he scours computer magazines and relevant Web sites for product information and pricing.

Morse has also recently purchased some used computer equipment from online auction sites. He recommends that potential bidders check to see if the auction site has free insurance and a feedback list. "When you buy something there, you're asked to fill out a feedback form stating whether you were satisfied, whether you got what you wanted, and if it was truthfully represented," he says. "Make this part of your research, and you'll be pretty safe." So far, he has had no problems purchasing used products online.

Morse decides where to buy computer equipment by clicking through a variety of Web sites and hunting through retail stores. "I check Best Buy, CompUSA, eBay, and Buy.com," he says. "I usually shop for price, and I usually have in mind what I want or what I need. Then I do some comparison shopping."

Shipping rates and speed of delivery are also important factors. "If I need something urgently, I have to strike a balance between any savings I might realize against just going over to CompUSA or Best Buy." Though the walk-in stores offer immediate gratification, there can be a significant downside. "I try not to buy spur of the moment, because when I walk into a computer store I can do some serious damage to my plastic," he says.

—David English

WinBook's discontinued refurbished units come with a one-year warranty, and currently available models enjoy three years of coverage. With discontinued models, once you buy it, it's yours. WinBook does offer a full 30-day return period with current models. Pricing begins at a mere $599 for notebooks, but those units tend to sell early in the day, according to a WinBook sales representative. With WinBook and other companies, it's a good idea to call early if you want to get the best deals.

Some of the most alluring prices on refurbished equipment can be had direct from a few industry giants associated more with retail and corporate sales than direct marketing: Acer, Compaq, Fujitsu, and Hewlett-Packard all sell refurbished equipment at considerable discounts through their direct-market Web sites. With each site, available configurations and pricing are clearly shown, and you can order online. Warranty policies are fairly restrictive, however. All four companies warrant refurbished PCs and laptops for only 90 days, though HP offers a full as-new warranty with refurbished printers and other peripherals through its site. Acer allows full returns for five days after buyers have received their systems, Compaq for seven days, and Hewlett-Packard for 15. The indecisive should think twice about Fujitsu's refurbished deals: The company discounts its laptops heavily but offers no money-back period.

SURPLUS SPECIALISTS

Whether because of (or in spite of) their high volume of sales, heavyweights like Compaq, Dell, and HP don't handle all of their own refurbishing and remarketing. Micro Exchange Corp. has carved a niche for itself by providing factory-authorized remanufacturing services for AST, Compaq, and Packard Bell. The company also handles some Dell products. Micro Exchange liquidates most of this product through other resellers, including auction houses or surplus-equipment dealers, but it also sells product directly to end users.

You can get a good idea of what types of bargains Micro Exchange offers by taking a look at its Web site: For instance, we found 17-inch Dell monitors beginning at $189, and 300MHz Compaq Presario desktop systems for as little as $519. To order equipment and learn exactly what is available, however, you'll need to give the company a call.

According to a Micro Exchange spokesman, 70 percent of the equipment handled by the company comprises new closeout items or store returns, which of course are cleaned up quite nicely. Most refurbished PCs come with Micro Exchange's 90-day warranty. But in some cases, buyers get a full one- to three-year manufacturer's warranty. The company offers a seven-day money-back period with all equipment, plus a 30-day exchange policy.

Relative newcomer American Discount Warehouse (ADW) takes a different approach. Instead of handling remanufacturing itself, ADW specializes in buying large lots of closeout or factory-refurbished equipment direct from manufacturers at deep discounts. According to an ADW spokesman, the company gets especially good deals because it can take on large amounts of inventory, and because it agrees to liquidate any returns itself. ADW is owned by Bostek, a computer-equipment distributor skilled in moving and handling large lots of product.

ADW's well-designed Web site looks more like that of an online superstore than of a hardware remarketer. Laptops account for about 45 percent of ADW's inventory, and desktop systems account for about 50 percent. You can order through the company's Web site or by phone.

Here and there, you'll also find good deals on refurbished equipment from more traditional merchants, including Computers4Sure, Insight Direct, MicroWarehouse, PC Zone, and TigerDirect. TigerDirect relegates refurbished units to its own section, but the other four merchants spread them out among their new offerings, often highlighting them as clearance items or special buys.

END-OF-LEASE DEALS

If discounts of 20 percent on like-new refurbs don't tempt you, you may want to explore end-of-lease or end-of-life refurbished units from companies such as IBM Credit Corp. This IBM subsidiary handles leasing and financing for IBM products, and ultimately IBM Credit also handles large quantities of used PCs at the end of lease periods.

Much of the returned equipment is reconditioned and sold through outside resellers or to schools, businesses, or government organizations, but individuals can also take advantage of these bargains. You can place orders online or by calling a toll-free number, and most PCs come with a 90-day warranty and a seven-day money-back guarantee.

IBM's shortest lease period is two years, so most PCs available through the company will be at

Be an Early Bird

Some of the best deals are snapped up early in the day. Get the jump on competitive shoppers, and call as soon as the lines open. You snooze, you lose.

BUYER PROFILE

Small Business, Big Decisions

When your business depends on the smooth functioning of your computers, your bargain-hunting will be influenced by just how heavily you rely on your systems. Just ask Frank White, who is president of two small businesses based in Columbus, Ohio: Ken White Associates, a retail design firm, and Home.net, a home-network consulting firm.

"We generally look for support, mostly for warranties, because we anticipate that we're going to use the equipment heavily for about three years, maybe four, until we have to replace it," White explains. He often chooses an additional warranty that guarantees repairs by the next business day.

White has learned from experience that it doesn't always pay to purchase the most expensive systems. "We usually buy the technology that's just finishing up," he says. "Right now, with the Pentium III coming in, we're buying fast Pentium II machines. When the Pentium II came in, we bought the fast Pentium machines. They were fine for what we needed, and they were an exceptional buy."



White's network consists of a server and five workstations. He's found that specialized network programs don't always provide the most bang for the buck for small businesses.

"We looked at a lot of different software programs for setting up a fax server, and WinFax Pro blew everything away," he says. "It was the cheapest by far, and it works fine for what we need."

When White purchases software, he relies on the major brands for the best overall value. For instance, he favors graphics packages from Corel Corp. and Adobe Systems because he knows their file formats will be supported by print shops such as Kinko's.

"You can give them a native Corel or Adobe file and, bing, it just works," he says. "We spent many hours trying to convert files from a less expensive graphics package—just to save $300 on the software. We lost that much money the first week."

When determining which product to buy, White says research is key. "We research the hell out of the magazine articles," he says. "We'll look for a buyer's guide and hit the Ziff-Davis Web site. We'll try to find out what everyone thinks."

Sometimes, however, he has to fall back on old-fashioned trial and error. "Fortunately, some stores have a good return policy," he says. "We'll try something, and if it doesn't work, we'll return it." He also tends to buy his peripherals at local retail stores because many products, such as network cards, are an immediate need. "You may save five bucks by purchasing it mail order, but by the time you throw in shipping and handling, and compare that to tax, it's not really that big a savings," he says. —*D.E.*

least that old. Available equipment as we worked on this article included active-matrix IBM ThinkPad models beginning at $625 and desktop systems beginning at $380, monitor included. Remember, however, that even the fastest of these systems came with a Pentium clocked at only 90MHz.

We found more choices, faster CPUs, and somewhat lower prices at Electro Rent Corp., which claims bragging rights as the nation's leading computer rental and leasing company. As with IBM Credit, Electro Rent runs leases for a minimum of two years, so most currently available systems still use Pentium CPUs. Most of the PCs listed in the Web site's numerous pages of desktop offerings were clocked at speeds of 100MHz to 233MHz, and notebooks were easy to find in the 90MHz to 150MHz range. A page of specials on the Web site listed a 100MHz Compaq Pentium minitower system for $295, including monitor. A 100MHz Compaq Armada laptop with an active-matrix screen could be had for as little as $450.

Electro Rent's efficient Web site lets you search through a portion of the company's extensive inventory, but don't be bashful about calling if you don't see what you need: With roughly $250 million in inventory, the company doesn't list all available equipment on its site. In addition to desktop and notebook systems, Electro Rent also sells refurbished hard drives, printers, servers, monitors, and even memory. Of course, as with most companies discussed here, volume discounts are also available.

Refurbisher and remarketer Micro Exchange also handles some end-of-lease and end-of-life equipment, though the majority of its product is newer. Some relatively small companies, such as Computer Outlet Worldwide, specialize in remarketing end-of-lease and end-of-life equipment bought from other companies and can also be good sources. As we worked on this article, Computer Outlet Worldwide's Web site listed many Compaq, HP, IBM, and Toshiba notebooks, with prices beginning at $195. The company's warranty includes 90 days of parts coverage and one year of labor. Unfortunately, buyers get no money-back period.

In March of last year, venerable retailer Egghead announced that it would close its retail stores and focus exclusively on Web-based business. Since then, Egghead.com has become a popular destination for shoppers seeking great deals. Like many other online stores, the site's computer and software sections sell new items. What sets Egghead.com apart is its focus on refurbished equipment of the nearly-new or end-of-lease variety.

According to IBM Credit, Egghead.com is its highest-volume buyer of refurbished end-of-lease equipment, and you won't be surprised when you visit the site. Within the SurplusDirect section of Egghead.com, we found 486-based IBMs selling for $69.99, and 90MHz Pentium IBMs selling for $199.99. You'll also find bargains on newer systems from IBM and other manufacturers, and not just on desktop systems and notebooks: Egghead handles just about any product category you could think of including home and garden supplies.

HOUSE AUCTIONS

A final and quite popular source for off-price merchandise owes its existence entirely to the Internet explosion: Web-based house auctions. Unlike with person-to-person auction sites such as eBay (see the sidebar "Going Once, Going Twice, Sold!"), when you bid in a house auction, you're buying from the company that runs the auction. In theory, at least, this makes buying from a house auction as safe and predictable as buying from a fixed-price merchant.

House auctions can be a great source for nearly any type of off-price product, including like-new refurbished equipment, end-of-lease hardware, serviced equipment, and overstocked and discontinued items. In many cases, you'll find hardware in auctions that is difficult to find anywhere else.

But house auctions can have their drawbacks. If a bid you place wins, the product is yours, like it or not. Similarly, don't expect a money-back guarantee, though a reputable auction house will of course take back faulty merchandise.

Another potential drawback is a lack of research among bidders or, because bidders simply get caught up in the process, inflated bids on popular items. This willingness to bid high can keep other bidders—you, for instance—from getting a good price no matter how diligently you've prepared. So be ready to do a little pricing research before you bid.

Still, great deals can be had if you're persistent or lucky, and good deals aren't hard to find. For instance, as we snooped about one evening, we saw six refurbished Acer Aspire 7110 350MHz Pentium II systems that sold for as little as $557 apiece. Acer's ShopAcer Web site was selling the same

✔ Ask About the Specials

Always ask a salesperson if he or she can do better than the listed price. Many are authorized to offer slightly lower prices.

BUYER PROFILE

THE CORPORATE CHALLENGE

In the movie *The Graduate*, a young Dustin Hoffman is told that the future can be summed up in one word: plastics. For corporate buyers, describing a successful future requires two words: volume discounts. Individuals and small businesses can use every trick in the book to find extremely low prices, but a corporate buyer must rely on volume discounts for even better deals.

Brian Riordan, manager of technology solutions for Outboard Marine Corp. (OMC), estimates that his company saves an additional 10 to 15 percent by consolidating its purchases with top vendors. Using the leverage of his company's 6,500 employees and 1,800 PCs, Riordan has negotiated special pricing with both Compaq Computer Corp. and Microsoft Corp. "We went through a PC selection process nearly a year ago where we talked with the IBMs and Dells of the world, and made the choice to go with Compaq," he explains. OMC, which is based in Waukegan, Ill., settled on three Compaq models: two desktops and one laptop. "Reducing the number of models from a corporate perspective is a big key to lowering the total cost of ownership."



The relationship also helps Compaq manage its own production schedule. Combining the commitments from its many corporate customers, Compaq can count on a guaranteed number of sales for specific models and can fine-tune its production to match the sales. "They'll tell us when they plan to stop manufacturing the model that we've selected," says Riordan. "So together we'll select the model that will give us the greatest longevity in our environment." He says most vendors will share their life-cycle schedules with their customers through nondisclosure agreements, which helps buyers make informed decisions.

OMC has a similar arrangement with Microsoft. The company is carrying out a major PC-replacement initiative and has analyzed the number of productivity suites it needs to purchase, deciding to go with Microsoft Office as its standard. "We got the Microsoft Select Licensing Program pricing, so that brings down the total cost of our Office suite," he says.

The other software programs that he purchases vary significantly and as a result are not purchased in sufficient volume to warrant corporate discounts. Riordan, however, has noticed that new resellers will sometimes offer him lower prices. "You might see a better discount initially," he says. "I think that's really just to get your business."

As with some software, Riordan also buys peripherals in numbers that are not large enough to merit a substantial discount. "We generally price-compare across resellers. CompuCom is our primary reseller for the Compaq machines and the software, but we go across resellers for peripherals because they're more of a commodity."

Riordan sees the widest price fluctuations with the peripherals. "It's amazing how much a printer might vary across resellers," he says.

—D.E.

Extra! Extra!

Registering for an e-mail alert service is a great way to stay informed about hot deals, but can quickly clutter up your primary account. Getting a second e-mail account can solve this problem. For a listing of providers, visit the Free Email Address Directory at *www.emailaddresses.com*.

refurbished system for just under $900.

Popular house auctions include Egghead.com Auctions; First Auction; Onsale atAuction; WebAuction, which is owned by MicroWarehouse; and uBid, which is owned by the same company that owns ComputAbility, PC Mall, and eCost.com.

Bidding for many items begins at less than $10—often at $1—but minimum bids can also be much higher, depending on the item and the auction house. The minimum bid for a system that will probably fetch about $700, for example, might be set at $299.

First Auction and Onsale atAuction provide proxy bidders to help keep your time expenditure to a minimum. Once you've specified your highest bid for a specific item, the proxy bidder automatically keeps you in the running by bidding for you until it reaches your maximum. Both auction houses also run half-hour or hour bids throughout the day, as does Egghead.com. All five auction a wide range of computer products, including software and accessories.

If you want to search a number of auctions for a specific item or class of equipment, try Auction Watchers. This Web site features a search engine that scours several house auctions to list available equipment. The most basic search returns equipment in a given category, but the site's SpecWatcher search engine lets you search by specifications and price.

Auction Watchers stands out for the volume of information it presents. The search results include not only the auction house and the product name, but also whether the product is new or refurbished, how much time is left to bid, what minimum bid is currently required, and what the auction house will charge for shipping and handling. You can proceed directly to the auction page's listing of a product that catches your eye simply by clicking on the name of the product.

Don't confuse Auction Watchers with AuctionWatch.com, a Web site that offers resources for anybody interested in auctions. Among the best features of AuctionWatch.com is a list of auctions by category. You'll also find a message board that lets people share their experiences with auction sites.

Get the Message

Chatting with fellow buyers on Usenet groups can be an excellent way to get the lowdown on companies you're doing business with. Also, check out the message boards at BizRate.com, eSmarts.com, and ResellerRatings.com.

BidFind and The Bidder's Edge are also well worth visiting if you find yourself intrigued with house auctions. BidFind indexes available products across many auction sites every day, which is both its forte and foible: Searching by category turns up a seemingly exhaustive list, but making your way through the list can also be exhausting. The best way to use BidFind is to search by product name or model number.

The Bidder's Edge also builds an extensive index of available products, plus the site includes a couple of tools that serious bidders should appreciate. For instance, the site shows you the selling history for a given product. Its Deal Watch feature can notify you by e-mail when products you've specified come up for auction.

SOMETHING NEW

As you have seen, although some of the products that are available via auction are new, most have been reconditioned. But even though shopping for refurbished goods or other surplus items might be the obvious way to find a deal, even those shoppers who insist on brand-new, top-tier goods can save plenty.

DIALING DIRECT

One easy strategy is to consult the manufacturer of your hardware first, even if you're not buying from a company known for direct marketing. Some manufacturers now sell their own products directly through their own Web sites, including Acer, ATI Technologies, Compaq, Fujitsu, Hewlett-Packard, IBM, and Kodak. In some cases, though certainly not all, this direct approach yields quite competitive pricing. While researching this article, for example, the HP Shopping Village was selling HP systems and peripherals as cheaply as any reseller around, and Fujitsu's online store was underselling resellers by quite a bit on some models. Checking out a manufacturer's Web presence will also give you a chance to spot promotions that might save you money. Fujitsu's site listed the 266MHz LifeBook 690Tx, a model the company was phasing out, at $1,599. The lowest price we found among resellers still carrying the 690Tx was $2,130. Fujitsu's price was the lowest by $100 to $200 on its LifeBook C340 and C350 models. With newer models such as the L470, the Fujitsu price was competitive but not usually the lowest.

SUPPORT GROUPS

Since the early years of the PC industry, some OEMs and resellers

Clip Those Coupons

For some buyers, rebate offers have become the latest thing to love to hate. Many a shopper has chosen a product based on a rebate-discounted price, only to fail to follow through with the necessary paperwork later. But provided that you're willing to see the process through, rebate coupons can easily save you a load of money.



Case in point: The numerous rebates available as we worked on this article included $30 on several Evergreen Technology CPU upgrades, as much as $75 on eMachines systems, and $175 on select Compaq products.

Increasingly, merchants are loading electronic versions of rebate coupons into one section of their Web sites. This not only makes it easy to find the coupons when you need them, but also enables you to browse coupon offers as an aid in deciding what to buy. As we worked on this article, we found such rebate-coupon collections on the Web sites of CDW, Insight Direct, NECX, and PC Zone.

—M.J.

Play the Ratings Game

Before you finalize your computer purchases, it might pay to check up on companies you are considering as sources. If you want to see if you can find a rating for a given company, check with sites like BizRate.com and ResellerRatings.com. If you've recently bought something through an e-commerce Web site, you may have been asked afterwards to fill out a BizRate survey about the experience. BizRate's Web site shows customer ratings for participating merchants, as well as BizRate staff ratings for many companies that don't participate.

ResellerRatings.com takes a different approach: Anybody who visits the site can rate any of the 700 or so listed companies, or even add a new company to the site, but only after registering with the Web site and receiving an ID. (The registration process is a safeguard against fraudulent ratings.) Each company listing shows a numeric rating along with how many people have rated the company. You can also view comments that users have provided about each merchant.

Browsing message boards and searching Usenet for mentions of specific companies can also be good ways to check up on merchants. BizRate.com and ResellerRatings.com offer such message boards via their sites. You'll find a message board and lots of other helpful information at eSmarts.com, a well-organized Web site that offers a wide range of information, resources, and links for those who shop online.

—M.J.

have focused on offering rock-bottom prices while others provided more in the way of service and support. The ongoing explosion of Internet commerce has helped extend this range to still-wider extremes. At one end of the continuum, outfits such as eCost.com proclaim that price is everything and woo customers with promises of wholesale-or-below pricing. At the other, small companies such as Publishing Perfection (a source for computer equipment for digital graphics, publishing, and video) try to build a loyal clientele by maintaining a knowledgeable sales force and by focusing on a certain type of product. Most resellers, including CDW, Cyberian Outpost, MicroWarehouse, and Insight Direct, fall somewhere in between, as do OEMs such as Dell, Gateway, Micron, and MidWest Micro.

Part of the beauty of somewhat-specialized, hands-on merchants such as Publishing Perfection lies with their ability to help you choose the right product. Even if you're a sophisticated PC user, chances are that some questions will arise when you make your purchases. A well-informed sales rep is also much more likely to help you head off a potential problem, for instance, by noting that the SCSI connector on the new peripheral you're buying might require an adapter.

✔ Used Goods

Always ask about warranties, especially when buying used or like-new equipment. And when buying used, ensure that the seller includes all of the software, documentation, and original packaging.

Even more important for many buyers will be the extra thought that a company like Publishing Perfection can put into its product line and offerings. Though it primarily sells new products, Publishing Perfection stocks an impressive range of refurbished equipment chosen with its graphics-oriented clientele in mind. For example, a Nikon Coolscan II LS-20 external film scanner that costs about $1,000 on average new can be had for $699.95 at Publishing Perfection. The company also puts together Value Bundles that make sense for its clientele, such as a digital camera along with the accessories that you'd likely need for it.

Similarly, TC Computers has a made a name for itself by providing a value-added approach to motherboard sales. The company would be happy to sell you motherboards and other components separately, but you get a few extra assurances if you buy a motherboard with a CPU and memory. First, when you order such a bundle, TC Computers offers a three-year warranty for the bundle as a whole, instead of merely honoring the shorter warranties of the bundle's separate, OEM-packaged components. Second, for every bundle it sells, the company also tests the CPU, the memory, and the board in question to ensure that they work together properly. Third, the company sets the motherboard correctly for the provided CPU and memory before sending you the bundle. Finally, TC Computers maintains its own technical-support staff to help you deal with any installation problems.

AT COST, ALMOST

A relatively new class of Web-centric reseller strives to draw buyers in with near-wholesale prices while keeping prices low by limiting or eliminating phone contact. Technical support is typically provided on a limited basis, if at all.

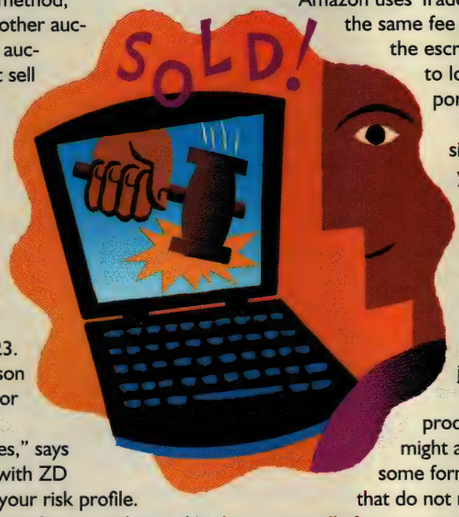
Services that employ this method include Buy.com, Computers4Sure, eCost.com, Egghead.com, NECX Direct's Online Store, Onsale atCost, and Shopping.com (the last of which is owned by Compaq). Keep in mind that some of these merchants differ considerably from others. For instance, while Buy.com and Shopping.com are young, heavily promoted businesses that sell a wide range of consumer goods, NECX Direct is a low-key,

Going Once, Going Twice, Sold!

Online auction sites have become a mighty big business. In fact, the Web's largest auction site, eBay (*www.ebay.com*), has more than 2 million registered users, conducts more than $1 billion in sales annually, and has about 2 million items on the block at any time.

If you're shopping for computer-related products, you can find some amazing bargains at both the general-category auction sites—such as Yahoo (*www.yahoo.com*)—and the computer-specialty auction sites such as ZDNet Auctions (*auctions.zdnet.com*).

Some of the specialty auction sites are essentially online surplus retailers, where you purchase the products directly from the retailer. Onsale (*www.onsale.com*) and uBid Online Auction (*www.ubid.com*) use this method, which is relatively risk-free. The other auction sites offer person-to-person auctions, where one individual might sell a computer to another. These auctions are more risky but potentially more rewarding. On one evening, ZDNet had person-to-person auctions with an ATI All-In-Wonder Pro video-capture/graphics-adapter card selling for $86, a generic 14-inch SVGA monitor selling for $65, and Microsoft Office 97 Professional Edition selling for $23.



Should you use person-to-person auctions—as a buyer, as a seller, or as both?

"In general, these are good sites," says Miran Chun, an industry analyst with ZD InfoBeads. "It really depends on your risk profile. If you're comfortable with a free-market mentality, and with dealing with people as opposed to institutions, then they're fine."

Unlike house auctions, in which a company stands behind each sale, most auction sites act only to facilitate the individual transactions. When there's a dispute about the quality of the merchandise, you generally have to work it out with the other party. "You could pay for something and not get it delivered, though that's the extreme," says Chun. "Or if you're selling something in an auction, you could deliver something and not get paid."

Many of the person-to-person auction sites are instituting various measures to help protect participants from improper transactions. Both Amazon.com and eBay offer insurance against fraud and misrepresentation. The latter will pay as much as $200 if the item isn't delivered after being paid for, or if the item is substantially different from its description in the auction.

Also, Amazon, eBay, Yahoo, and ZDNet offer feedback systems in which participants rate the integrity of other participants. It's a good idea, but not entirely foolproof. And some sites offer links to escrow services that can hold the buyer's payment until the merchandise is received—though these companies typically charge 5 percent of the item's value. Currently, eBay uses i-Escrow (*www.iescrow.com*), which has a $5 minimum and charges less than 5 percent for items that cost more than $5,000.

Amazon uses TradeSafe (*www.tradesafe.com*), which has the same fee structure. The buyer usually pays the escrow fee, though the seller may agree to lower the selling price to absorb a portion of the fee.

Whether person-to-person auction sites are right for you may depend on your ability to roll with the punches. It's easy to get caught in the excitement of the bidding process and bid more than a product is actually worth. In fact, it's not unusual for someone to pay more for a product than it sells for in a store. So be prepared to do some research before jumping in.

If you're just starting out, stick with products you already know. Novices might also want to begin with sites that offer some form of insurance. Watch out for bids that do not reflect recent retail-price decreases, especially for computer hardware. Favor sites where sellers are able to include a product picture, which is especially important for devices that get a lot of wear and tear, such as notebooks and keyboards. Assume there will be an increased risk with goods for which quality evaluations are highly subjective, such as monitors and printers. And for expensive goods, such as desktops, you may want to consider using an escrow service.

The bottom line: Person-to-person transactions are more complex and pose a greater risk than house auctions. So if you don't have the constitution for complexity or risk, you may want to observe the action from the sidelines. On the other hand, if you can stand the heat, you can find some terrific bargains.

—D.E.

computer-focused operation that emerged from a venerable computer-related business. The company is also something of a pioneer and innovator in e-commerce in general. Gateway recently purchased approximately 20 percent of NECX Direct, along with an option to buy the rest of the company. The fruit of this transaction can already be seen in Gateway's new SpotShop shopping service, which is essentially NECX Direct's Web-based reseller.

Computers4Sure, Egghead.com, and NECX Direct depart from the others in their willingness to take on at least some stock. This allows the purchase of off-price equipment such as closeout inventory and refurbished hardware, which can translate into attractive specials for buyers.

Judging by complaints and warnings posted on some message boards, Shopping.com has had its ups and downs, but the organization is trying to turn customer service into a strength. The site now offers a 125 percent satisfaction guarantee: Customers unsatisfied for any reason within 30 days of purchasing a product can return it for a full refund plus get a Shopping.com gift certificate worth 25 percent of the original purchase price. Some restrictions apply.

A few strengths and weaknesses of this newest breed of reseller are easy enough to see. Their prices tend to be low, and all should offer relatively smooth sales if you know exactly what you want. But don't expect a lot of guidance from the merchant beforehand or a lot of technical support later.

Also make sure you know how much you're really paying for a product before you commit to the purchase. Shipping costs can vary greatly—and somewhat arbitrarily—among merchants with aggressive pricing. Irrespective of shipping costs, some merchants don't show you what you'll actually pay for the product until you've begun checking out.

The eCost.com site provides the best example of this approach: The prices listed for each item are essentially what eCost.com must pay for the product. As the site explains, the final cost of the item includes an order-processing fee of from 50 cents to $10, plus a payment-processing fee that equals 2.4 percent of your total invoice amount, including any applicable sales taxes and shipping costs. The grand total for a $3,319 laptop we priced ended up at $3,434—a jump of $115.

When compared with prices from numerous other resellers, the prices offered by eCost.com and its drop-shipping rivals were usually at least competitive. For instance, with the Toshiba Tecra 8000 laptop mentioned earlier, the prices offered by eCost.com, Buy.com, and Shopping.com were all above the $3,346 average for the 14 resellers we included in our pricing. The least expensive of the 14 were NECX Direct, CDW, Insight Direct, MicroWarehouse, and PC Zone, all of which offered prices under $3,300. None of these five companies except NECX Direct drop-ship a majority of their inventory. Then again, eCost had the lowest price for a Compaq desktop system we checked on, and all of the drop-shipping outfits fared well when we compared prices on two hard drives.

Informed Bidding

Know the real-world prices of items before bidding on them at auction. It's easy to get carried away and end up paying more than an item is worth.

SHOPPING BOTS

The quickest and easiest Web-based way to get a good grasp on a product's pricing is to conduct a search using one or more intermerchant search engines, sometimes referred to as shopping agents or bots. Key in on a manufacturer's part or model number, if possible, to ensure that you're comparing the same product in the same packaging (OEM or retail) across resellers.

Our own computershopper.com can price products across a number of resellers, as can CNET's Shopper.com. Other search engines are available, including Jango, MySimon, PriceWatch, ShopFind, and KillerApp.

KillerApp is unusual in part for the large number of resellers it searches, but its large store of detailed model information and powerful, easy-to-use interface have also made it a hit. When you search for a product with KillerApp, it returns a list of items that match your search, along with a summary of their specs and the lowest price that it found for each. To see a complete table of merchants that sell the product, simply click on the price. To see more information about the product itself, you click on the product. As we worked on this article, KillerApp's future was somewhat fuzzy: CNET purchased the company behind KillerApp, and whether the shopping agent would retain its current form and scope was unclear.

DEALS FOR THE ASKING

Just about any merchant Web site you visit will highlight specials of some sort, but it can also pay to have the specials come to you. Most reseller Web sites let anybody register for occasional newsletters or mailings that notify shoppers of future specials and other deals. A few companies have taken this concept a step or two further. For instance, PC Zone lets you specify as many as three products and two manufacturers that especially interest you. Insight Direct lets you choose to receive monthly eCatalogs for more than 20 product categories and 60 companies.

In addition to providing newslet-

(continued on page 90)

Bots Do It Better

Comparison-shopping is the way to go, and intermerchant search engines, such as computershopper.com, post prices from a wide variety of vendors. It's definitely worth your while to pay them a visit.

You Make the Call

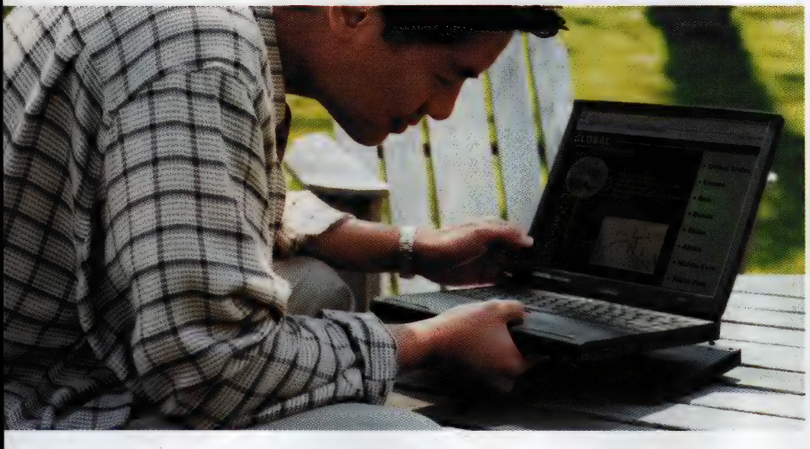
Visiting sites on the Web isn't the only way to find the best bargains—sometimes talking to a live salesperson who is in the know can put you at a great advantage. For example, a Gateway spokesperson says the company occasionally runs unadvertised weekend specials on PCs, adding system memory for no additional charge. Similarly, Quantex Microsystems reports that special upgrades were sometimes available only through sales representatives, and a TigerDirect representative says the company's salespersons always have specials they can offer. CDW, which assigns a sales representative to every individual or organization that buys from the company, also acknowledges that sales representatives sometimes might be more current on special deals than the company Web site is, though the company strives to keep the Web site up to date.

One OEM—Comtrade—invites customers to call about group discounts and even act as a Comtrade reseller. A spokesperson says Comtrade gives free PCs to individuals who bring in 20 or so system sales for the company. It's probably safe to assume that most OEMs would be willing to give a price break even to informal groups—you and a few coworkers or friends, for instance—who decide to buy from one company.



Also, haggling is something you just can't do online. Numerous sources stress that buyers should always ask salespeople if the advertised or quoted price is the best they can do, whether they're buying new, front-line equipment or surplus. If buying a system, you might ask the salesperson to throw in additional items for free, such as any accessories you might need. You might also make some headway by asking your salesperson to match a lower price offered by another company. You never know until you ask. **—M.J.**





	PRESARIO 1600s-380 INTERNET NOTEBOOK PC	PRESARIO 1600s-400 INTERNET NOTEBOOK PC
Base price includes:	AMD-K6®-2 380 MHz Processor	AMD-K6-2 400 MHz Processor
	13.3" TFT Active Matrix Display	14.1" TFT Active Matrix Display
	32 MB SyncDRAM expandable to 64 MB	64 MB SyncDRAM expandable to 128 MB
	4.8 GB UltraDMA Hard Drive[1]	4.8 GB UltraDMA Hard Drive[1]
	24X Max CD-ROM Drive[3]	24X Max CD-ROM Drive[3]
	ATI 3D Rage LT Pro™ Hardware Accelerated 3D Graphics with 8 MB Video Memory	ATI 3D Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory
	56K ITU V.90 Modem (PCI)[2]	56K ITU V.90 Modem (PCI)[2]
	High-Capacity LiIon Battery	High-Capacity LiIon Battery
	2X AGP for Enhanced Video Graphics	2X AGP for Enhanced Video Graphics
	1 MB L2 Pipeline Burst Cache	1 KB L2 Pipeline Burst Cache
	MS® Featured Home Collection & Windows®98	MS Featured Home Collection & Windows98
	$1799‡ As low as **$51** per month†	**$1999‡** As low as **$56** per month†
Personalize by choosing:	AMD-K6-3 380 MHz Processor: Add $50	128 MB SyncDRAM: Add $200
	6.4 GB UltraDMA Hard Drive[1]: Add $100	6.4 GB UltraDMA Hard Drive[1]: Add $100
	64 MB SyncDRAM: Add $100	4X DVD-ROM Drive[4]: Add $200

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The Compaq Presario 1900T Series Internet Notebook PC features a removable drive wedge. With the wedge on, it's a fully loaded notebook with DVD-ROM technology. Take it off, and you've got an ultra-thin notebook that weighs just under 5 lbs.



PRESARIO 1600s INTERNET NOTEBOOK PC



PRESARIO 1800T INTERNET NOTEBOOK PC



PRESARIO 1900T INTERNET NOTEBOOK PC

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Attention all modem-plugging, drive-swapping, peripheral-obsessed notebook users: Your all-in-one notebook is ready.

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The all-in-one Compaq Presario 1600s Series Internet Notebook PC. The only thing missing from it is you.

PRESARIO 1600s-380 INTERNET NOTEBOOK PC	**PRESARIO 1800T C-400 INTERNET NOTEBOOK PC**	**PRESARIO 1800T-PII 400 INTERNET NOTEBOOK PC**	**PRESARIO 1800T-PII 400 INTERNET NOTEBOOK PC**
AMD-K6-3 380 MHz Processor	Mobile Intel® Celeron™ 400 MHz Processor	Intel Mobile Pentium® II Processor, 400 MHz	Intel Mobile Pentium II Processor, 400 MHz
14.1" TFT Active Matrix Display	15.0" TFT Active Matrix Display	15.0" TFT Active Matrix Display	15.0" TFT Active Matrix Display
64 MB SyncDRAM	64 MB SyncDRAM expandable to 128 MB	64 MB SyncDRAM expandable to 128 MB	64 MB SyncDRAM
6.4 GB UltraDMA Hard Drive[1]	4.8 GB UltraDMA Hard Drive[1]	4.8 GB UltraDMA Hard Drive[1]	6.4 GB UltraDMA Hard Drive[1]
4X DVD-ROM Drive[4]	24X Max CD-ROM Drive[3]	24X Max CD-ROM Drive[3]	4X DVD-ROM Drive[4]
ATI 3D Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory	ATI Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory	ATI Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory	ATI Rage LT Pro Hardware Accelerated 3D Graphics with 8 MB Video Memory
56K ITU V.90 Modem (PCI)[2]	56K ITU V.90 Modem (PCI)[2]	56K ITU V.90 Modem (PCI)[2]	56K ITU V.90 Modem (PCI)[2]
High-Capacity Lilon Battery	Smart Lilon Battery	Smart Lilon Battery	Smart Lilon Battery
2X AGP for Enhanced Video Graphics	128 KB Integrated "On-chip" cache	256 KB Integrated "On-chip" cache	256 KB Integrated "On-chip" cache
1 MB L3 Pipeline Burst Cache	Microsoft Featured Home Collection	Microsoft Featured Home Collection	3.5" 120/1.44 MB High Capacity SuperDisk™ Drive
MS Featured Home Collection & Windows98	Microsoft Windows98	Microsoft Windows98	MS Office 2000 Small Business® & Windows98
$2299‡ As low as $64 per month[1]	**$2199‡** As low as $62 per month[1]	**$2599‡** As low as $73 per month[1]	**$2999‡** As low as $84 per month[1]
Extra AC Adapter: Add $49	Port Replicator: Add $128	128 MB SyncDRAM: Add $200	128 MB SyncDRAM: Add $200
Extra Smart Lilon Battery: Add $129	6.4 GB UltraDMA Hard Drive[1]: Add $100	6.4 GB UltraDMA Hard Drive[1]: Add $100	Extra Smart Lilon Battery: Add $129
Xircom 10/100 Ethernet PC Card: Add $169	Extra AC Adapter: Add $49	4X DVD-ROM Drive[4]: Add $200	10.0 GB UltraDMA Hard Drive[1]: Add $150

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may vary from 1500 to 3600 Kbps. [4]4X DVD-ROM drives run at a higher maximum transfer rate of up to 5400 Kbps compared to 2nd Generation DVD-ROM drives which run at a maximum transfer rate of up to 2705 Kbps One year parts and labor. Labor for desktop systems is pick-up service during the first 90 days of ownership. Compaq, the Compaq logo, and Presario are registered in the U.S. Patent and Trademark Office. Better answers is a service mark of Compaq. AMD-K6 is a registered trademark of Advance Micro Devices, Inc. Microsoft, MS, and Windows are registered trademarks of Microsoft Corporation. Intel, the Intel Inside logo, and Pentium are registered trademarks, and Celeron is a trademark of Intel Corporation. Product and company names mentioned herein may be trademarks and/or registered trademarks of other companies. Call Compaq Monday–Friday, 7:00 am–11:00 pm (CT), Saturday and Sunday, 7:00 am–7:00 pm (CT). ©1999 Compaq Computer Corporation. All rights reserved.

(continued from page 87)

ter signup, CDW boasts a feature called Buyer's Alert. Simply add the products that interest you to your Buyer's Alert list, and CDW automatically e-mails you when the products reach a target price you've specified, or when an item comes back into stock.

If you like the idea of e-mail alerts but don't want to clutter up your primary account, consider getting a free Web-based account from Hotmail, Yahoo, Ziff-Davis' ZDNet, or hundreds of other sources.

Most of the many OEMs and resellers we interviewed assured us that any available specials would be mentioned on their Web sites, and some spokespeople actually chuckled at the idea that some specials might be available only by phone. The holy grail for many vendors is 100 percent unassisted Web sales. Accordingly, numerous companies advertise at least some specials only via the Web, and in at least one case—WinBook—the company offers savings of up to $200 on certain laptops only to people who order online. NECX Direct adds a $25 fee to orders placed over the phone in an attempt to convince buyers to order online. Still, even some merchants that are trying to steer users to their Web sites acknowledge that only their sales force may know of some specials. (See the sidebar "You Make the Call.")

Don't forget to check into any volume discounts that might be available through your employer. Small-business customers of U.S. West, for example, should be eligible for volume discounts negotiated with Insight Direct. As a convenience to business and corporate accounts, some merchants offer tailored Web pages that automatically reflect the volume pricing enjoyed by the organization, and that might highlight any special configurations favored by the company. Two merchants offering this service, CDW and Insight Direct, also make it easy for individuals to configure the Web site with the same volume pricing after they enter a code provided by their employer.

TIMING IS EVERYTHING

Gauging the timing of your purchase can also help you save money, depending partly on the type of company you're dealing with. For a variety of reasons, companies that handle most or all of their own inventory might blow out inventory near the end of each quarter, and more than one source said that buying toward the end or beginning of a month can help. The problem with trying to time your purchases right will be knowing the specific rhythms of the companies you deal with. The best way to find out whether this strategy might help is to ask a company salesperson.

Planning around CPU price drops can also pay off. Particularly with today's low profit margins, the price of the CPU plays a big role in setting system pricing, and Intel and its competitors lower CPU prices fairly frequently. The challenge will be finding out when the next round of price drops is coming. Your salesperson may be willing to tell you. If not, you can always search on computershopper.com or ZDNet for mentions of expected forthcoming CPU introductions or price drops.

One of the best-kept secrets around is the price protection quietly offered by many companies. If they lower the price of your system within 30 days of your purchase, some OEMs—including Dell and Gateway—will refund the difference. Don't expect any company to issue such a refund automatically, though—you'll have to ask. To give yourself the best chance of benefiting from such a refund, make sure you verify before buying your system that your OEM of choice offers price protection. After you buy, remember to monitor the price of your system and to call your salesperson if you notice a drop.

THE BOTTOM LINE

Shoppers have never had so many choices when it comes to how and where to buy computer equipment, or so many options when it comes to snagging a bargain price. Whether you enjoy haggling with sales reps, lurking at auctions, browsing for coupons, or trolling for refurbs or closeouts, you should have no problem saving considerable cash if you're willing to put a little work into your purchases. ▼

SECTION CONTINUES ON PAGE 92

COMPANY DIRECTORY

Acer Outlet`	800-368-2237, www.acer.com/aac/access/o_top.htm
Amazon.com	amazon.com
American Discount Warehouse (ADW)	888-742-5239, www.pickadw.com
AST Computer	877-278-2661, www.ast.com
AuctionWatch.com	auctionwatch.com
Auction Watchers	www.auctionwatchers.com
ATI Technologies	www.atitech.com
Best Buy Online	www.bestbuy.com
Bidder's Edge	www.biddersedge.com
BidFind	www.bidfind.com
BizRate.com	bizrate.com
Buy.com	888-880-1030, buy.com
CDW Computers	800-797-4239, www.cdw.com
CNET Shopper.com	www.shopper.com
Compaq Computer Corp.	800-282-6672, www.compaq.com
Compaq Factory Outlet Superstore	888-215-8864, www.compaqworks.com/cwstore/templates
CompuCom	www.compucom.com
CompUSANet.com	800-294-4727, compusanet.com
ComputAbility	800-554-2184, www.computability.com
Computer Outlet Worldwide	877-850-2001, www.compuoutlet.com
Computers4Sure	800-585-4080, www.computers4sure.com
computershopper.com	computershopper.com
Comtrade Electronics USA	800-969-2123, www.comtrade.com
Cyberian Outpost	877-688-7678, www.outpost.com
Dell Computer Corp.	800-388-8542, www.dell.com
Dell Refurbished Online Outlet	888-798-7561, www.dell.com/outlet
Eastman Kodak Co.	www.kodak.com/go/shop
eBay	www.ebay.com
eCost.com	www.ecost.com
Egghead.com	egghead.com
Electro Rent Corp.	800-431-7717, www.electrorent.com
eSmarts	www.esmarts.com
First Auction	www.firstauction.com
Fujitsu PC Corp	877-372-3473, www.fujitsu-pc.com
Fujitsu Refurbished Outlet	877-372-3473, onlineoutlet.fujitsu-pc.com/ic/external/index.asp
Gateway	800-428-3929, www.gateway.com
Gateway Factory Outlets	800-846-3614 www.gateway.com/reman/rmn.shtml
Hotmail	www.hotmail.com
HP Shopping Village	888-999-4747, www.hpshopping.com
IBM Credit Corp.	800-426-5440, refurbishedpcs.financing.ibm.com
i-Escrow	www.iescrow.com
Insight Direct	800-467-4448, www.insight.com
Jango	www.jango.com
KillerApp	www.killerapp.com
Micro Exchange Corp.	800-284-0406, www.microexch.com
Micron Electronics	800-347-3490, www.micronpc.com
Micron Factory Outlet	800-730-0932, www.micronpc.com/store/factoryoutlet
Microsoft Corp.	www.microsoft.com
MicroWarehouse	800-367-7080, www.warehouse.com
MidWest Micro	800-728-8582, www.mwmicro.com
mySimon	www.mysimon.com
NECX Direct	www.necx.com
Onsale atAuction	www.onsale.com
Packard Bell	www.packardbell.com
PC Factory Outlet	888-474-6772, www.pcfactoryoutlet.com/homepage.asp
PC Mall	800-863-3282, www.pcmall.com
PC Zone	800-408-9663, www.pczone.com
Price Watch	www.pricewatch.com
Publishing Perfection	800-782-5974, www.publishingperfection.com
Quantex Microsystems	800-836-0566, www.quantex.com
ResellerRatings.com	resellerratings.com
Royal Computer	800-486-0008, www.goroyalpc.com
ShopAcer, a division of Acer America	800-368-2237, www.shopacer.com
Shopfind	www.shopfind.com
Shopping.com	888-568-3274, shopping.com
TC Computers	800-723-8282, www.tccomputers.com
TigerDirect	800-830-0056, www.tigerdirect.com
TradeSafe Online Corp.	www.tradesafe.com
uBid	www.ubid.com
WebAuction.com	800-397-8120, webauction.com
WinBook Corp.	800-651-4519, www.winbook.com
WinBook Web Specials	800-254-7806, www.winbook.com/wbcommerce/spec.html
Yahoo	www.yahoo.com
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SMART SHOPPER

TOP 25

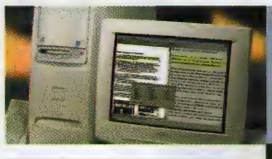
DESKTOPS

THIS MONTH



Dell Dimension L400: This isn't your uncle's budget system. Based on a 400MHz Celeron CPU and Intel's new 810 chip set, this $999-direct PC delivers impressive graphics, 64MB of RAM, and a 9.1GB Ultra ATA/66 hard drive. (Page 158A)

Dell Computer Corp.



Micron ClientPro CS: An IT-friendly 450MHz Pentium III that covers all the bases, the $1,749 ClientPro CS is loaded with 128MB of SDRAM, an 18GB hard drive, an Ethernet card, and Intel LANDesk Client Manager. (Page 152)

Micron Electronics

RECENT WINNERS ▼

Quantex M433c: (July) This $1,299 system is a study in value, with its 433MHz Celeron processor, 13GB hard drive, 6x DVD-ROM drive, Zip drive, excellent Ethernet card, and 17-inch monitor. All this and top-flight performance. ***Quantex Microsystems, www.quantex.com***

Quantex SM550: (July) Everything about this PC screams "Cutting-edge!": a 550MHz Pentium III CPU, a CD-RW drive, a 6x DVD-ROM drive, a Voodoo3 3000 graphics card, and a 19-inch monitor. And at $2,699, it shouts "Bargain!" too. ***Quantex Microsystems, www.quantex.com***

CyberMax Enthusiast KIII 450 Pro: (June) The Enthusiast rivals the power of a Pentium III-based system, but its new price of $1,499 direct puts it closer to a Celeron. Mix in 128MB of SDRAM, a 13.2GB hard drive, and a Zip drive, and this system becomes an irresistible bargain. ***CyberMax Computer, www.cybermaxpc.com***

MOBILE

THIS MONTH



Quantex I-1511: This portable powerhouse is decked out with a 15-inch LCD, a 400MHz Pentium II processor, 128MB of SDRAM, and a 2x DVD-ROM drive. And at $3,099, the I-1511 delivers more than your money's worth. (Page 190)

Quantex Microsystems

RECENT WINNERS ▼

Dell Latitude CPt C333GT: (July) The muscular $1,898 Latitude CPt C333GT performs like a champ, thanks to its 333MHz Celeron CPU, 64MB of SDRAM, 4.3GB hard drive, and 14.1-inch display. And IT will appreciate its capable management applications. ***Dell Computer Corp., www.dell.com***

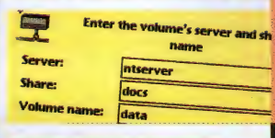
Micron TransPort NX: (June) This $3,699 heavyweight has everything you'll need in a notebook, including a 366MHz Pentium II processor, 128MB of SDRAM, a 15-inch TFT display, a 14GB hard drive, a DVD-ROM drive, and an LS-120 drive. If that's not enough, try lugging a desktop. ***Micron Electronics, www.micronpc.com***

Palm V: (June) Once again, Palm Computing has advanced its PDA to the head of the class by improving the screen and adding a rechargeable lithium-ion battery. To top it off, the company has slimmed down this $449-direct PDA, resulting in a head-turning silver pocket rocket. ***Palm Computing, a 3Com Co., www.palm.com***

Toshiba Portégé 3020CT: (June) With a 300MHz MMX Pentium processor, 32MB of RAM, and a 6.4GB hard drive, the $1,899 Portégé 3020CT packs a punch in a 2.9-pound chassis. ***Toshiba America Information Systems, www.toshiba.com***

NETWORKS

THIS MONTH



Dave 2.1: Need to integrate a Mac on a Windows network? Get Dave 2.1. It delivers fast performance and full peer-to-peer operations for just $121 (single license). And it's a snap to install. (Page 244)

Thursby Software Systems

RECENT WINNERS ▼

Intel Express 550T Routing Switch: (July) This $2,100 switch is outstanding as a Fast Ethernet backbone switch for smaller networks or as an edge-routing switch for larger nets. ***Intel Corp., www.intel.com***

HARDWARE

THIS MONTH



Castlewood Orb: A newcomer in the removable-storage arena, the $200 Orb drive comes through with spacious 2.2GB cartridges and zippy performance. Better yet, Orb cartridges cost an unbeatable $35 each. (Page 215)

Castlewood Systems



Nikon Coolpix 950: It's the most advanced digital camera we've seen, featuring 2-megapixel resolution, a swiveling 3x optical zoom lens, and an 8MB CompactFlash card—all for $855. And did we mention the awesome pics? (Page 208)

Nikon

RECENT WINNERS ▼

Microtek ScanMaker X6 USB: (July) For a mere $127, the ScanMaker X6 achieves outstanding quality when scanning original photos and offers high-end options such as a transparency adapter and an automatic document feeder. ***Microtek Lab, www.microtekusa.com***

Sonigistix MM-700: (July) This slick-looking flat-panel speaker system pumps out beautiful, crystal-clear audio accompanied by nice bass response. At $179, it's a small price to pay for sonic happiness. ***Sonigistix, www.monsoonpower.com***

Epson Stylus Photo 750: (June) The $295 Stylus Photo 750 delivers precise dot size and achieves the highest-quality output we've seen. ***Epson America, www.epson.com***

3dfx Voodoo3 3000: (June) Although it costs a little more than most other graphics boards, the new $170 Voodoo3 3000 offers 3-D performance that blows away the competition. ***3dfx Interactive, www.3dfx.com***

SOFTWARE

THIS MONTH



CorelDraw 9: Corel comes through with this update of its top-drawer illustration program. This $389 megapackage provides 1,000 fonts, 30,000 pieces of clip art, a font manager, image editing, vector graphics, and much more. (Page 298)

Corel Corp.



Bryce 4: This easy-to-use $177 3-D modeling package empowers you to generate realistic landscapes. Bryce 4 adds a Sky Lab function, an enhanced Terrain Editor, and expanded output capabilities. (Page 304)

MetaCreations Corp.



Star Wars: Episode I Racer: Hands down, it's one of the most addictive racing games we've seen. With simulated speeds in excess of 600 mph and breath-taking intergalactic tracks, the $45 Racer will keep you coming back for more. (Page 309)

LucasArts Entertainment Co.

RECENT WINNERS ▼

Lotus SmartSuite Millennium Edition 9.5: (July) This $399 productivity suite fuses innovation and reliability, delivering well-conceived applications that include new versions of Organizer, SmartCenter, and Trellix. This SmartSuite also includes updated versions of all its core apps. ***Lotus Development Corp., www.lotus.com***

Norton SystemWorks 2.0: (July) For just $68, Symantec rounds up all the utilities you'll ever need for PC maintenance and virus protection. This suite features updated versions of five popular utilities, some eminently useful additions, and tight integration between modules. ***Symantec Corp., www.symantec.com***

Ulead Media Studio Pro 5.2: (June) For $500, Ulead Media Studio Pro's sophisticated video-editing tools produce professional-quality output. Its image-editor module, Video Paint is awesome. ***Ulead Systems, www.ulead.com***

Sid Meier's Alpha Centauri: (June) This $42.95 strategy game of seven warring colonies offers an intriguing story, an ingenious effects-laden interface, and endless replay value. ***Firaxis Games, www.firaxis.com***

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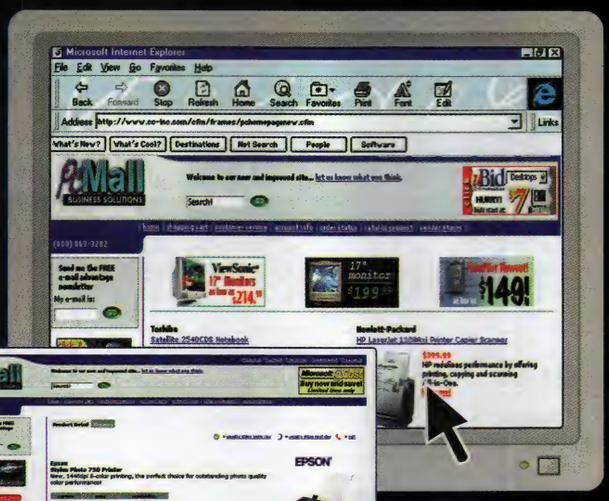
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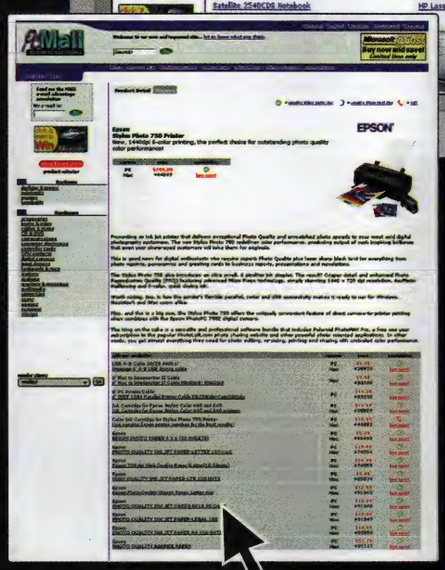
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- 32X CD ROM
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SONY

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- 24X CD ROM
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#47089	5340	400 AMD-K6-2	96MB	4.3GB	32X	56K	MT	W98	$799
#47090	5360	450 AMD-K6-2	64MB	10GB	32X	56K	MT	W98	$999
#47096*	5716	450 PIII MMX	96MB	15GB	6XDVD	1.5DSL	T/D	W98	$1,599
#47379*	5714	466 Celeron	64MB	12GB	32X	56K	T/D	W98	$1,199

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HP Pavilion Desktops

Order#	Model	Processor	RAM	HD	CD	Modem	Form	OS	Price
#47537	4540	433 Celeron	64	8GB	32X	V.90	MT	Win 98	$749
#47835*	4550Z	466 Celeron	64	10GB	32X	V.90	MT	Win 98	$899
#47539**	8570C	450 PIII MMX	96	19GB	32X	V.90	MT	Win 98	$1,499

*Includes Zip Drive and 10/100BT. **Includes CDRW and 10/100BT.



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- 2.1GB hard drive
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HP Pavilion Desktops

Order#	Model	Processor	RAM	HD	CD	Modem	O/S	Price
#45009	333cs	333 Cyrix MII	32	2.1GB	32X	56K	Win 98	$399*
#45018	366c	366 Cyrix MII	32	3.2GB	32X	56K	Win 98	$499*
#45017	400i	400 Celeron	32	4.3GB	32X	56K	Win 98	$599*

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#44786	330	450 PIII MMX	64/384	14.4GB	40X	56K	T/D	W98	$1,379
#44252	330	500 PIII MMX	128/384	18GB	40X	56K	T/D	W98	$1,719



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- Windows 98
- 3 year limited warranty

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Hewlett Packard Systems

Order#	Model	Processor	RAM	HD	CD	LAN	OS	Form Factor	Price
#46265	7598T	366 Celeron	64	4.3GB	32X	—	Win 98	MT	$789
#46274	7586T	400 Celeron	64	8.4GB	32X	—	Win 98	MT	$859
#44375	D7624T	400 PII	64	8.4GB	32X	—	Win 98	MT	$1,099
#44373	D7605T	400 PII	64	8.4GB	—	10/100	Win 98	MT	$1,209
#44337	D9751T	450 PIII	64	6.4GB	—	—	Win 95	DT	$1,269
#44341	D7958T	450 PIII	64	8.4GB	32X	—	Win 95	MT	$1,399
#44363	D8173T	450 PIII	64	8.4GB	32X	—	Win 95	DT	$1,279
#44361	D8172T	450 PIII	64	4.3GB	—	10/100	Win NT	DT	$1,279



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#44365	627583U	450 PIII	64MB	4.2GB	40X	W98	MT	$1,259
#44398	627594U	500 PIII	64MB	8.4GB	40X	W98	MT	$1,569

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#42756	PCGCIX	P266MMX	64	4.3GB	–	8.9" TFT*	V.90	W98	$2,299
#46759	PCG F270	PII 333	64	6.4GB	4XDVD	14.1" TFT	V.90	W98	$2,399
#46765	PCG F280	PII 366	64	6.4GB	4XDVD	14.1" TFT	V.90	W98	$2,799
#46777	PCG F290	PII 400	128	6.4GB	4XDVD	15" TFT	V.90	W98	$3,499
#47112	PCG Z505S	Celeron 333	64	6.4GB	—	12.1" TFT	V.90	W98	$2,499
#47113	PCG Z505SX	PII 366	128	6.4GB	—	12.1" TFT	V.90	W98	$2,999

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ThinkPad 390

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#44079*	390E	333 PII MMX	64	6.4GB	24X	14.1" TFT	V.90	$2,799

ThinkPad 570

Order#	Model	Processor	RAM	HD	CD	Display	Modem	Price
#45759*	570	300 PII MMX	64	4GB	—	12.1" TFT	56K	$2,699
#45785*	570	366 PII MMX	64	6.4GB	—	13.3" TFT	56K	$3,499

*Windows 98

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Prosignia SMB

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#45521	122	350 AMD K6-2	32	4.0GB	24X	12.1" TFT	56K	Win 98	$1,699
#45524	144	380 AMD K6-2	64	4.0GB	24X	14.1" TFT	56K	Win 98	$1,899
#45525	162	380 AMD K6-2	64	6.4GB	24X	14.1" TFT	56K	Win 98	$2,189

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#47141	1500C	366 Celeron	32	4GB	24X	12.1" TFT	56K	Win 95	$1,799
#47144	1500C	366 Celeron	32	4GB	24X	12.1" TFT	56K	Win NT	$1,899

Armada 1750 Series

Order#	Model	Processor	RAM	HD	CD	Display	Modem	O/S	Price
#45510	1750	333 PII MMX	64	6.4GB	24X	14.1" TFT	56K	Win 95	$2,769
#43138	1750	333 PII MMX	64	6.4GB	24X	13.3" TFT	56K	Win 95	$2,779
#43145	1750	366 PII MMX	64	6.4GB	24X	14.1" TFT	56K	Win 95	$3,095

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- 24X CD-ROM
- 4.1GB HD
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Satellite Series

Order#	Model	Processor	RAM	HD	CD	Display	Modem	Price
#43523	4030CDT*	300 Celeron	64	4.3GB	24X	13.3" TFT	56K	$1,784
#45216	4060CDT*	333 PII MMX	64	4.1GB	24X	13.3" TFT	56K	$2,289
#43517	4080XCDT*	366 PII MMX	64	6.4GB	24X	14.1" TFT	56K	$2,549

Libretto

Order#	Model	Processor	RAM	HD	CD	Display	Modem	Price
#39002	110CT	233 MMX	32	4.3GB	—	7.1" TFT	—	$1,697

*Windows 98

ThinkPad 600E

- 366MHz Intel® Pentium® II w/MMX™
- 64MB RAM
- 6.4GB HD
- 24X CD-ROM
- 13.3" TFT
- 56K V.90 fax/modem

$3,499 #42422

ThinkPad 600

Order#	Model	Processor	RAM	HD	CD	Display	Modem	Price
#42420*	600E	300 PII MMX	32	4.0GB	24X	13.3" TFT	56K	$2,799
#42428	600E	366 PII MMX	64	6.4GB	DVD	13.3" TFT	56K	$3,699

ThinkPad 770

Order#	Model	Processor	RAM	HD	CD	Display	Modem	Price
#42441*	770Z	366PII MMX	128	14.1GB	DVD	14.1" TFT	56K	$4,599

*Windows 98

Presario 1685

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- 12.1" TFT Display
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- DVD ROM Drive
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Includes Compaq Internet Zone

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Presario Notebooks

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#47107	1690	400 AMD-K6-2	64	6.4GB	4X-DVD	14.1" TFT	56K	Win 98	$2,499

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#43474	8000*	366 PII MMX	128	8.1GB	DVD	14.1" TFT	—	$4,089

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*Windows 98

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- Win® 98

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#46541	538T	K6-2 380	32	4.3	24X	13.3" TFT	W98	56K	$1,699

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#32425	DC240 Two Megapixel Digital Zoom Camera, 1536 x 1024	$999.99
#44552	DC265 Zoom Digital Camera, 1MME, 1536 x 1024	$999.99
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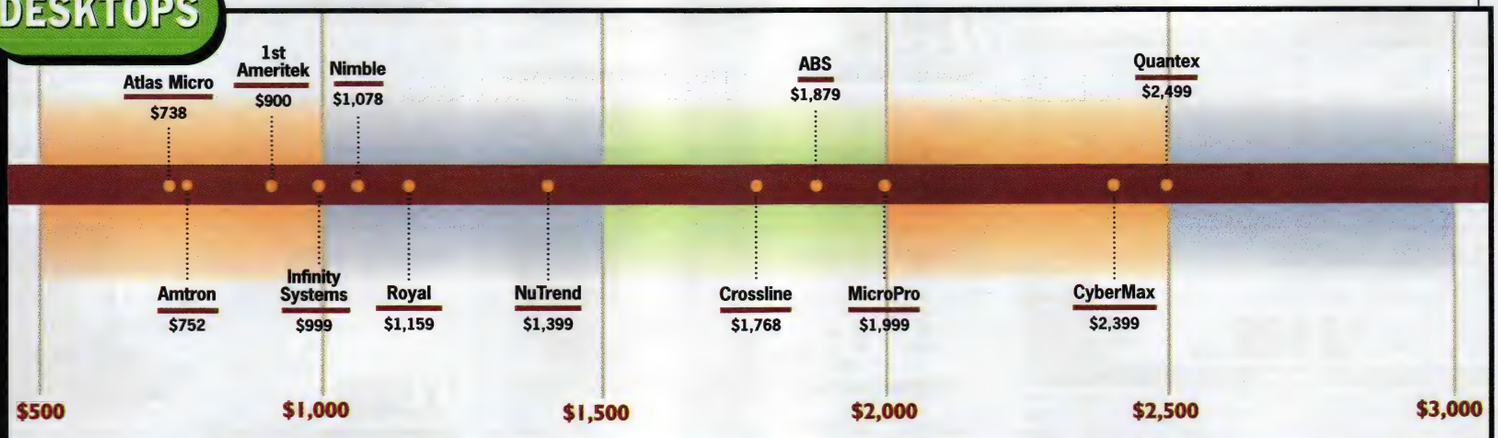
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SMART SHOPPER YOUR GUIDE TO THE BEST PC DEALS

VALUE LINE

Each month, Russell Gilchrist, the senior market analyst at *Computer Shopper*, scours the PC universe to discover what configurations vendors are selling and how much they are charging. On this page, the editors of *Computer Shopper* have highlighted some of the best values from his list. Keep in mind that these figures are based on advertised prices at press time and may have changed, and that they do not include data on performance or on service and support.

DESKTOPS



Atlas Micro 450MHz K6-2, 64MB RAM, 4.3GB hard drive, CD-ROM drive, 8MB AGP graphics card, 15-inch monitor, 56Kbps modem
Price: $738

Amtron 450MHz K6-2, 256MB RAM, 6.4GB hard drive, DVD-ROM drive, 8MB AGP graphics card, 56Kbps modem
Price: $752

1st Ameritek 450MHz K6-2, 256MB RAM, 13.6GB hard drive, CD-ROM drive, 4MB AGP graphics card, 56Kbps modem
Price: $900

Infinity Systems 450MHz Pentium II, 32MB RAM, 13.5GB hard drive, CD-ROM drive, 8MB AGP graphics card, 17-inch monitor, 56Kbps modem
Price: $999

Nimble 450MHz K6-2, 128MB RAM, 12GB hard drive, DVD-ROM drive, 16MB AGP graphics card, 17-inch monitor, 56Kbps modem
Price: $1,078

Royal 450MHz K6-2, 128MB RAM, 12.7GB hard drive, DVD-ROM drive, 16MB AGP graphics card, 17-inch monitor, 56Kbps modem
Price: $1,159

NuTrend 450MHz K6-2, 128MB RAM, 13GB hard drive, DVD-ROM drive, 32MB AGP graphics card, 19-inch monitor, 56Kbps modem
Price: $1,399

Crossline 450MHz Pentium III, 256MB RAM, 17GB hard drive, DVD-ROM drive, 32MB AGP graphics card, 19-inch monitor, 56Kbps modem
Price: $1,768

ABS 450MHz Pentium III, 256MB RAM, 25GB hard drive, CD-ROM drive, 32MB AGP graphics card, 19-inch monitor, 56Kbps modem
Price: $1,879

MicroPro 500MHz Pentium III, 128MB RAM, 17.2GB hard drive, DVD-ROM drive, 32MB AGP graphics card, 19-inch monitor, 56Kbps modem
Price: $1,999

CyberMax 500MHz Pentium III, 128MB RAM, 18GB hard drive, DVD-ROM drive, 32MB AGP graphics card, 21-inch monitor, 56Kbps modem
Price: $2,399

Quantex 500MHz Pentium III, 128MB RAM, 20GB hard drive, CD-RW drive, 16MB AGP graphics card, 19-inch monitor, 56Kbps modem
Price: $2,499

Source: Value Added Report, June 1999

AVERAGE DESKTOP

System Configuration For June 1999*

- 400MHz Intel Pentium II
- 96MB RAM
- 8GB hard drive
- DVD-ROM drive
- 8MB AGP graphics card
- 17-inch monitor
- 56Kbps modem

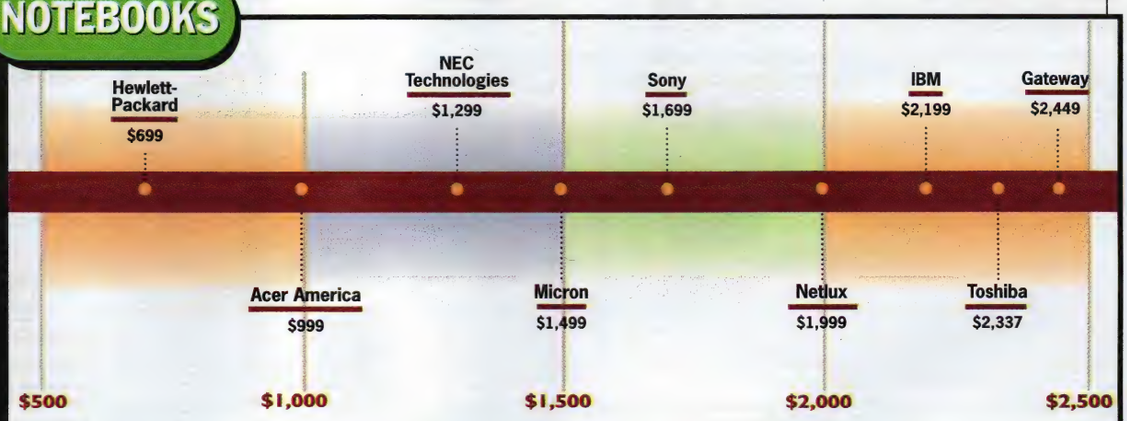
AVERAGE NOTEBOOK

System Configuration For June 1999*

- 266MHz Intel Pentium II
- 48MB RAM
- 4GB hard drive
- 24x CD-ROM drive
- 13.3-inch TFT display

*Based on ads in *Computer Shopper*, May 1999

NOTEBOOKS



Hewlett-Packard 133MHz Pentium, 32MB RAM, 1.3GB hard drive, 2MB graphics memory, 12.1-inch TFT display, lithium-ion battery, 7 pounds
Price: $699

Acer America 233MHz Pentium II, 32MB RAM, 2.1GB hard drive, CD-ROM drive, 2MB VRAM, 12.1-inch TFT display, 56Kbps modem, 7.5 pounds
Price: $999

NEC Technologies 266MHz MMX Pentium, 32MB RAM, 3.2GB hard drive, CD-ROM drive, 2MB VRAM, 13.3-inch TFT display, 56Kbps modem, nickel-metal-hydride battery, 7 pounds
Price: $1,299

Micron 266MHz Pentium II, 32MB RAM, 4.3GB hard drive, CD-ROM drive, 2MB VRAM, 12-inch TFT display, lithium-ion battery, 4.4 pounds
Price: $1,499

Sony 300MHz Pentium II, 64MB RAM, 4.3GB hard drive, CD-ROM drive, 1MB VRAM, 14.1-inch TFT display, 56Kbps modem, lithium-ion battery, 5.9 pounds
Price: $1,699

Netlux 433MHz Celeron, 64MB RAM, 6.4GB hard drive, DVD-ROM drive, 8MB VRAM, 14.1-inch TFT display, lithium-ion battery, 7 pounds
Price: $1,999

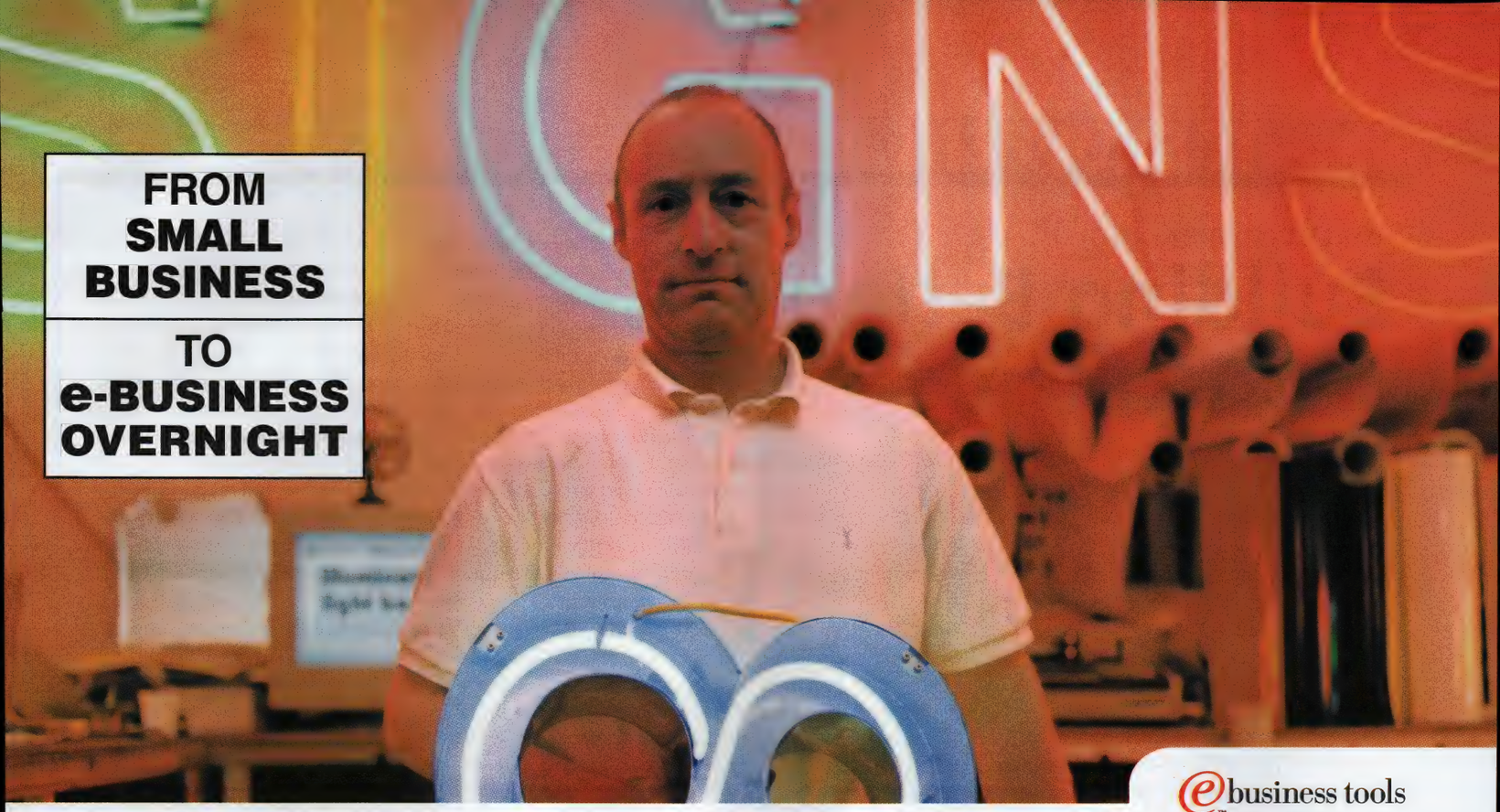
IBM 266MHz Pentium II, 32MB RAM, 5.1GB hard drive, DVD-ROM drive, 4MB VRAM, 14.1-inch TFT display, 56Kbps modem, lithium-ion battery, 8.1 pounds
Price: $2,199

Toshiba 300MHz Pentium II, 64MB RAM, 8.1GB hard drive, CD-ROM drive, 2MB VRAM, 14.2-inch TFT display, 56Kbps modem, lithium-ion battery, 6.4 pounds
Price: $2,337

Gateway 300MHz Pentium II, 64MB RAM, 6.4GB hard drive, DVD-ROM drive, 2MB VRAM, 13.3-inch TFT display, lithium-ion battery, 6.5 pounds
Price: $2,449

Source: Value Added Report, June 1999

SECTION CONTINUES ON PAGE 98



ebusiness tools

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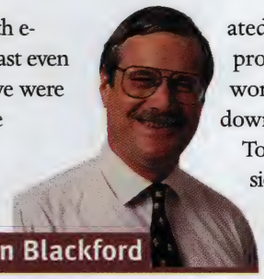
intel inside
pentium® III

*Estimated reseller price to end users for PC 300 Model #6287-4BU, 6277-98U, 15" Monitor Model #65460AN, Modem Part #33L4618, Memory Part #01K1136, Zip Drive Part #20L0544, 19" Monitor Model #65494AN, Tape Drive Part #20L0549, Scanner Model #0275011. [1]SuccessLease is offered and administered in the US and Canada by Fidelity Leasing Inc., an approved provider of business financing for IBM Global Financing. All terms are provided by Fidelity Leasing Inc.; amount of monthly lease payments based on 36-month term, full payout lease, to qualified business customers, installing in the US. A documentation fee and first month payment due at lease signing. Any taxes are additional. Other terms and financing structures are available. Offer may be withdrawn or changed without notice. [2]MHz denotes microprocessor internal clock speed; other factors may affect application performance. [3]GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. [4]May be preloaded, included on a CD, or available on a CD at no charge. [5]Options must be leased with system unit. [6]These modems are designed to be capable of receiving data up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible. [7]Variable read rate. Actual playback speed will vary and is often less than the maximum possible. All PCs in this ad ship with an operating system. All product names are registered trademarks or trademarks of International Business Machines Corporation. Lotus and Lotus SmartSuite are registered trademarks of Lotus Development Corporation, an IBM company. Intel, the Intel Inside logo and Pentium are registered trademarks and Celeron is a trademark of Intel Corporation. Microsoft and Windows are registered trademarks of Microsoft Corporation. ©1999 IBM Corp. All rights reserved.

DIRECTLY SPEAKING

Building Better E-Commerce

Despite irksome glitches, business on the Web won't be denied.



John Blackford

It was predictable: With e-commerce blowing past even the rosiest projections, we were due for a bad patch. Sure enough, the Charles Schwab trading site (*www.schwab.com*) saw outages this year, under pressure of doubling traffic in less than six months. Then eBay, which virtually created the online person-to-person auction, went down repeatedly, for up to a day.

Less dramatically, established sites like Amazon.com and Onsale tested the auction waters, only to find that customers didn't necessarily think of their sites—which they trusted for book and computer sales respectively—as a compelling place to buy auctioned products.

That's poetic justice. After all, eBay, Amazon, and Onsale had each created a business that could only exist in cyberspace. Then they fell victim to the idiosyncrasies of the Web. Because cyberspace is a virtual reality, if that space crashes, you've got none. Also, in cyberspace, mindshare is critical: Amazon jumped out ahead of Barnes and Noble in the race for online book sales. And despite the fact that Barnes and Noble has a vast bookstore chain, Amazon retains its lead on the Web, because of the mindshare advantage. Yet that edge hasn't transferred to the auction space.

SIDESTEPPING THE PITFALLS

For Web providers like eBay and Amazon, the challenge has been first to scale up with demand, and second, to learn how (and when) to extend the brand. To ensure reliability, Onsale's Barry Peters says the site tries to run at only 30 to 35 percent of capacity. That way, spikes in demand—caused by a front-page story in *The Wall Street Journal* or even traffic generated by another site's problems, for example—won't bring the system down.

To achieve brand extension, Amazon is now pursuing a long-term approach of promoting its auctions on its own site, and by advertising elsewhere, while steadily increasing the number of offerings. That's the plan, but in cyberspace, planning is easy. Success, on the other hand, is built on thousands of lines of code running reliably on a worldwide net built of disparate, ever-changing parts.

E-commerce would no doubt be more efficient if each Web developer sat down and designed from the ground up, but that's not the way it works. Most sites started because someone said, "We need a Web presence," or "I'd like to build a site." After version one—and often version two—is running, company managers start to get serious about expanding the site. Most sites thus have considerable legacy code. The challenge is to transition that into a more efficient, powerful site, without bringing it down.

The most recent outage at eBay came shortly after a site redesign, so the company quickly pulled the design, pending debugging. The problem here is similar to why some experts fear the Y2K problem will cause havoc despite precautions taken: Somewhere in the bowels of a legacy system, an out-of-date component could fail when confronted with the millennium's double zeros—and send that failure cascading down the line. So for Internet providers, building a reliable system means handling glitches—and swings in demand—that might be outside the local system.

The current watchword is modularity. In theory, pieces of content and services can be assembled in multiple ways, according to user demand; individual modules can be more easily swapped out for repair or upgrade.

SECURE SPACE

Of course, from the user's perspective, the trick is to find the most reliable—and trustworthy—sites. In part, that's a matter of finding the ones that seldom go down, are easy to navigate, and deliver useful information and products. Users develop trust in favored sites that deliver accurate facts, quality products, and reliable support. They also expect that their personal information will not be misused.

There's still ongoing concern that personal demographics will be shared, unleashing a flood of unwanted e-mail. In general, vendors are aware of this concern and refrain from getting too intrusive. Before you register with personal information, check the site for a promise not to resell your personal data. If you don't spot that pledge, pick up the phone and call someone at the site.

The good news for both reliability and personal confidence is that the Web is evolving with startling speed to respond to millions of users and buyers. Companies that

TECH WATCH

Designed for Destruction

As virus attacks become more severe, traditional antivirus solutions won't be enough.



Stephanie Izarek

With recent outbreaks of super-destructive, rapidly spreading PC viruses, antivirus-software vendors have been put to the test with twice the volume of calls and millions of orders for the software. Likewise, large corporations are scrambling to ramp up their antivirus strategies—or in the more unfortunate cases, to repair costly damages incurred by a virus.

According to the International Computer Security Association, the Melissa virus alone—the least malevolent of the recent strains—cost U.S. businesses $393 million.

In the last year, we've seen the status quo blossom from the occasional virus alert into a near epidemic. And with companies such as AT&T, Boeing, General Electric, and Microsoft falling prey to the ExploreZip worm in June, it's hard to just tell victims, "Well, you should've been running up-to-date virus software. You should've backed up your data. You shouldn't have opened that attachment without verifying the source."

With viruses becoming more insidious, we need to rethink the way we combat them and find new ways to cope with future outbreaks. One thing is apparent: Existing prevention methods, such as receiving monthly, weekly, or even daily updates from antivirus-software vendors such as Network Associates or Symantec aren't going to be enough for the future.

We've already learned a lot about new types of viruses as the malicious programs have unleashed their payloads over the past few months. The three "big guns"—Melissa, CIH (or Chernobyl), and ExploreZip—targeted widely used technologies: Microsoft-engineered software and the Internet. The Melissa virus, for instance, used only the Visual Basic for Applications language, object models in Office, and Outlook address books. Similarly, the ExploreZip worm relies on MAPI commands and the Internet.

Virus researchers are also finding that the homogeneity of our computer systems creates an Achilles heel by leaving entire networks vulnerable rather than just individual PCs. And as networks grow in complexity, so

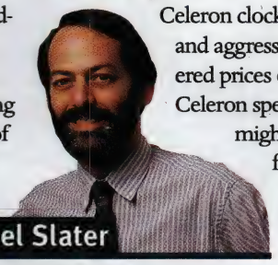
THE SILICON SCENE

Intel Alternatives Face Dashed Hopes

AMD, IDT, and Rise try to stay alive.

After great gains in 1998, Intel's competitors entered 1999 with high hopes. So far, those hopes have been dashed. AMD and Cyrix each lost market share, IDT and Rise remained insignificant, and they all lost money on their PC processor efforts. Most recently, National decided to sell or shut down its Cyrix operation.

Meanwhile, Intel made a stunning $2 billion profit in the first quarter of 1999. What happened to the competitive onslaught? In a word:



Michael Slater

Celeron. In 1998, Intel launched Celeron without an L2 cache and with only lackluster performance. It was poorly received. This weak start let AMD and Cyrix make major inroads in the burgeoning low-cost PC market. Intel was not about to let its market-share erosion continue, however, and early this year, it moved aggressively to recapture lost ground.

Intel switched its efforts entirely to the Mendocino version of Celeron with on-chip L2 cache, boosted Celeron clock speeds, and aggressively lowered prices on all Celeron speeds. AMD might have fared better in response to Intel's attack if it had not simultaneously run into production problems. In an attempt to keep up with Intel, AMD has repeatedly tweaked the K6-2 design to boost its clock speed. This effort has been remarkably successful, with AMD now shipping 475MHz chips.

Late last year, however, one of AMD's attempted improvements backfired: It unintentionally introduced a problem into the design that reduced AMD's yield, especially at the higher speeds. AMD says these problems are past (once again), but they had a serious effect on its first-quarter results. AMD's yield problems at the top speed grades forced the company to sell slower-speed versions, which required aggressive discounting. The combination of factors led AMD to a $128 million loss in the first quarter.

At the same time, AMD's cut-rate pricing caused Cyrix to lose some business and suffer a further reduction of its average price. For National, enough was enough. Cyrix represents less than 10 percent of National's business, but it required heavy investments in leading-edge fabrication technology and was the source of most of the company's losses. National, therefore, decided to concentrate on its successful analog, networking, and super I/O chips, and on processors aimed at information appliances. The company is selling its major factory, located in South Portland, Maine, and it will use foundries to manufacture most of its digital chips in the future.

Although AMD is in a precarious position, it is unlikely that such a move will occur. For AMD, the stakes are much higher. PC processors are the majority of its business; success in PC processors is life or death for AMD.

Fortunately for AMD, it has a much stronger product line than Cyrix. Although Cyrix has introduced no new processor designs for nearly two years, AMD has moved from the K6 to the K6-2 and K6-3, and it is now introducing the K7. AMD shipped three times as many processors as Cyrix in the first quarter, and its average price was nearly twice as high, though still a third of Intel's.

AMD achieved its current position almost solely based on the K6-2. The K6-3, though considerably faster due to its on-chip 256K L2 cache, hasn't been a major part of AMD's shipments so far. Retail PC buyers all too often focus on clock speed, not performance, so the K6-2 meets their needs—and the K6-3 has a much larger die, so it costs more for AMD to manufacture and uses up more of its manufacturing capacity.

In the second half of this year, AMD plans to roll out its K7 processor, which the company expects to be the fastest PC processor available. This will be a huge change for AMD, potentially raising it out of a purely economy-supplier role. It requires all-new chip sets and motherboards, but the potential payoff is great.

AMD also plans to move to a 0.18-micron manufacturing process. In this process, the K6-2 will be inexpensive to manufacture, letting AMD chase the low-end business Cyrix and IDT have served. The K6-3 will be inexpensive enough for the mainstream value-PC segment, and the K7 should be a strong product for performance PCs. This broad product line is the key to letting AMD continue to gain unit market share, and more important, maintain a higher average price. Many execution challenges are ahead, making failure a constant possibility—but there clearly is a possible success scenario for AMD. ▼ *mslater@mdr.zd.com*

Stephanie Izarek

does the extent of destruction. If there were greater diversity of hardware and software across a network, infection would be more difficult to transmit and therefore might not be as widespread.

The evolution of malicious code is another topic that researchers are examining more closely. A virus typically infects a PC's data via attached documents or programs that require a user to open and pass them along. A worm, on the other hand, is more akin to agent technology. It is a self-replicating program that resides in memory, duplicates itself via networked computers, and can send itself along without user interaction. But ExploreZip and Melissa combine aspects of both a virus and a worm.

ExploreZip has been particularly insidious because it collects e-mail addresses from the client and presents itself as a benign compressed document sent by a known party. But once opened, it settles into memory, restarting itself at system reboots. From there, it relies on network resources to move itself along. ExploreZip has the ability to spread over local corporate networks, too, which means that users can be infected even if they don't open the e-mail attachments. If an infected PC on a network shares files with other PCs, the program will continually try to infect those files. So even if you install antivirus software on one PC, as long as it's connected to the network, it is at constant risk.

Virus researchers, like those at the Symantec AntiVirus Research Center (SARC), are calling for a new approach to virus management—one that mimics disease control in the human world. And with the advent of polymorphic viruses, strains that learn to evade even the sophisticated pattern detection of today's antivirus solutions, this becomes the most logical model to follow.

One project that takes this approach is the Digital Immune System, which was jointly developed by IBM, Intel, and Symantec. It will be released in phases over the next 18 months, and will include tools for system and policy management, server performance, desktop configuration, diagnostics, virus protection, and disaster recovery—all managed from a single console.

The intent is for virus cure and prevention to outpace the spread of any virus, through "intelligent" virus detection, developed by SARC and IBM scientists, and a dynamic, automatic update-delivery system. The first phase is due in December and is built on the Norton AntiVirus Corporate Edition (due out this summer). It will be linked to an intelligent back-end system at the SARC.

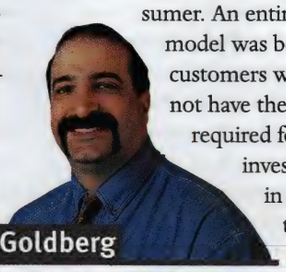
The Digital Immune System isn't a cure-all, but it gets us closer to preparing for and managing the next generation of destructive code, which will no doubt come. Better and early detection, keeping networked systems in better overall health, and introducing diversity—meaning non-Wintel platforms—into our computing structure, are the keys. ▼ *stephanie_i_smith@zd.com*

MARKET SCOPE

IT by the Byte

"Pay as you go" is the way to go.

A funny thing happened on the way to Internet economy. IT products and services went from a purchase model to a pricing paradigm that lets the user essentially "pay by the drink." That new network will no longer cost $22,000 dollars up front; rather, it'll be $985 per month, with basic accounting software, e-mail, and a home page. Want to add online customer service? That's another $185 per month, thank you.



Aaron Goldberg

The move away from the purchase event is driven more by a combination of customer needs and vendor desire for sales expansion. PC leasing has grown into a whole new way of doing business, with benefits such as consistent customer contact, the ability to drive new product sales, and quicker sales growth in new products and services.

Gateway's YourWare did the most to get vendors and customers thinking in this direction. The program wasn't so much a payment option as it was a way for consumers and smaller businesses to buy PCs and have the option of "trade-ins," which protected them from obsolescence. Dell followed with its range of services, and Micron's Mpower program goes even further by offering environmentally friendly disposal of old PCs.

Yet the influence of the Internet, just as it has done in so many areas, turned this trend from a PC-oriented financing and service scheme into an entirely new way of doing business for both vendors and customers. Despite being a staunch old-line firm, even HP has publicly stated that it will be building systems for customers who are charged on an as-used basis—and not for the piece-parts that make up the solution.

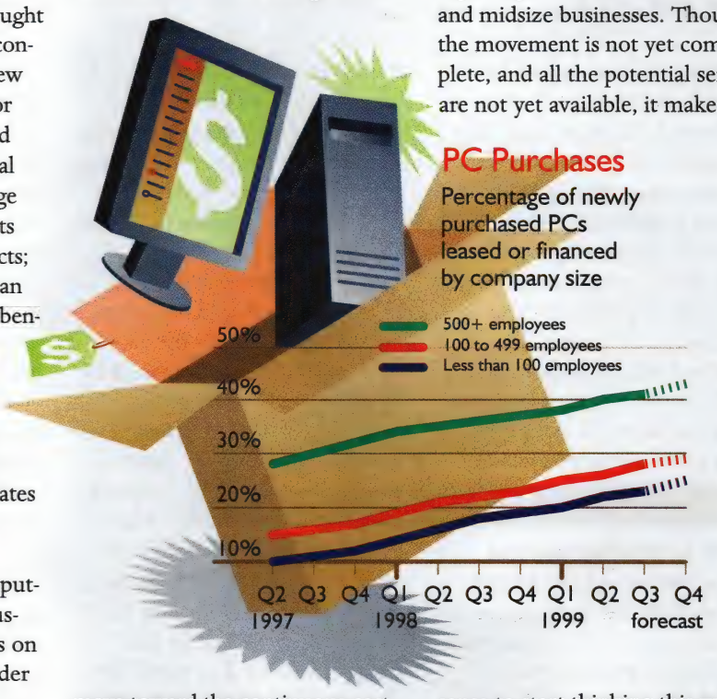
Whereas the bulk of IT customers had dealt only with a purchase mentality, the Web brought the notion of payment for service levels to the masses. It also brought about remote services for the consumer. An entirely new model was born for customers who did not have the capital required for huge investments in projects; they can now benefit from application solutions once priced out of reach. In addition, by centralizing the hosting and maintenance of the solution, the cost of personnel, modifications, and updates could be shared, which limits ongoing costs.

This new approach to computing costs doesn't mean that customers can remove their focus on the process and proceed to order lots of new systems because they've got a spare $10,000 per month in the budget. Even though the payment system has changed, the problems of training individuals on applications internally at the firms, making sure the implementations fit business needs, and maximizing the lives of older PCs still remain.

The cost of hardware drove businesses to time-sharing, but the move toward the continuous-cost model is proving that finding the right people to work on and maintain computer equipment is a challenge. The ability to hire and retain such employees is often beyond the scope of most small and midsize firms. Instead of sharing precious computing cycles, we'll be sharing precious human talent.

The change in the pricing paradigm is good news for most small and midsize businesses. Though the movement is not yet complete, and all the potential services are not yet available, it makes sense to start thinking this way now. Getting a competitive edge from IT has never been easier. ▼

aaron_goldberg@zd.com



FLASHBACK

Digging for the Definition of Digital Paper

Digital paper has a long history, but little success.

Over the years, the term "digital paper" has taken on different meanings and lead to market confusion. Originally, it was a type of substrata for optical drives that was going to revolutionize the storage industry, but that concept has long been forgotten. Today, digital paper refers to a piece of paper coated with a thin circuit and then dot-addressed so it's readable—as if it had something printed on it. The modern usage makes more sense, but the confusion may have contributed to its short life.



John Dvorak

Digital paper was first developed by Creo, a Canadian company based in Vancouver. In late 1989, Creo produced a tape drive in conjunction with Imperial Chemical Industries (ICI) using a polymer-based material ICI dubbed "digital paper." The tape drive used reels of digital paper 800 meters long and 35mm wide on a 12.5-inch reel. One 800-meter reel of tape cost $10,000, and the drive cost $200,000. The first unit shipped in mid-1990.

The inventor was Dan Gelbart, who had previously invented a unique portable data terminal and the early Federal Express handheld devices. The capacity of a reel of this tape was 1,000 gigabytes, and the maximum access time was 30 seconds. The material was interesting enough for Iomega to base a drive on. One drawback was that although it could reliably hold a lot of data, it was not erasable.

INFOGRAPHIC BY ROSE ZGODZINSKY

(continued on page 104)

The iiyama TrueFlat series. See, and feel, the difference.

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AG pitch 0.25mm center
Horizontal frequency 30–115khz

VisionMaster Pro 510 – $1229 ESP
Resolution 2048 x 1536 @ 80hz
AG pitch 0.25mm center
Horizontal frequency 30–130khz

	CRT Monitor Model/ Viewable Area	TCO	Dot Pitch/ CRT Type	Max. Horizontal Scan Rate	Max. Resolution	Est. Street Price
22"	**VisionMaster Pro 510** (20.0" VIS)	TCO '99	0.25mm/AG	130khz	2048 x 1536@80hz	$1229
21"	**VisionMaster Pro 502** (19.5" VIS)	TCO '95	0.28mm/AG	110khz	1800 x 1440@75hz	$999
	VisionMaster Pro 501 (19.5" VIS)	TCO '95	0.28mm/AG	96khz	1600 x 1200@75hz	$939
	VisionMaster 502 (19.5" VIS)	TCO '95	0.22mm/H	110khz	1800 x 1440@75hz	$999
19"	**VisionMaster Pro 450** (18.0" VIS)	TCO '99	0.25mm/AG	115khz	1800 x 1440@80hz	$699
	VisionMaster 450 (18.0" VIS)	TCO '95	0.22mm/H	102khz	1600 x 1200@80hz	$459
17"	**VisionMaster Pro 410** (16.0" VIS)	TCO '99	0.25mm/AG	96khz	1600 x 1200@75hz	$469
	VisionMaster Pro 400 (16.0" VIS)	TCO '95	0.25mm/AG	96khz	1600 x 1200@75hz	$399
	VisionMaster 400 (16.0" VIS)	TCO '95	0.26mm/dp	96khz	1600 x 1200@75hz	$379
	S702GT (16.0" VIS)	TCO '95	0.28mm/dp	96khz	1280 x 1024@85hz	$299
15"	**VisionMaster 350** (13.7" VIS)	MPR-II	0.28mm/dp	69khz	1280 x 1024@65hz	$219

	TFT/LCD Monitor Model	TCO	Pixel Pitch	Max. Horizontal Scan Rate	Max. Resolution	Est. Street Price
14.1"	**Pro Lite 36a** (with OSD)	TCO '95	0.297mm	62.5khz	1024 x 768@75hz	$839
15.0"	**Pro Lite 38a** (with OSD)	TCO '95	0.297mm	62.5khz	1024 x 768@75hz	$1079
	Pro Lite 38b (with OSD, USB & Speaker)	TCO '95	0.297mm	62.5khz	1024 x 768@75hz	$1129
15.4"	**Pro Lite 39a** (with OSD, USB & Speaker)	TCO '99	0.2385mm	80khz	1280 x 1024@75hz	$1999
18.1"	**Pro Lite 46a** (with OSD, USB & Speaker)	TCO '99	0.2805mm	80khz	1280 x 1024@75hz	$3329

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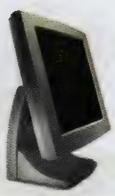
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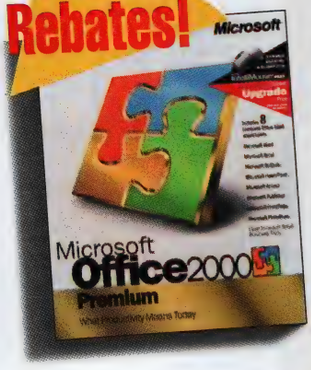
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John Dvorak

(continued from page 100)

The plan was to produce a 5.25-inch drive that held 1.3 gigabytes. The media was targeted to sell for $60, which was an aggressive price for 1991. Iomega eventually gave up on making a commercial product from the material. Around the same time, the Canadian government was supposedly using the tape drives to collect and store satellite data. The first system was sold to the Canadian Center for Remote Sensing (CCRS) in Ottawa in June 1990, and a second drive was shipped in November 1990. Then five systems were sold to the Canadian Department of Energy, Mines, and Resources, and were supposed to save the government a fortune in mag-tape costs.

The technology sounded like a variation of the phase-change technology in use today. Using a dye polymer, an archival tape could be created with a laser, which both wrote to the "paper" and read from it. But in fact, this technology poked little holes in a unique chemical layer. The material was actually manufactured by Imperial Chemical Industry of Wilmington, Del. Once a recording was made, the tape was supposed to be more stable than mag tape. Also, because the substrata was polycarbonate—the same rugged, bulletproof plastic that fighter-jet cockpit windows are made from—the tape wasn't as subject to tension and stretching problems. But this plastic was hardly "paper."

Nobody at Creo called this stuff digital paper, and the term was supposedly invented by ICI as a marketing gimmick. Other companies got on the bandwagon, and various digital-optical-tape (DOT) systems were announced. Lasertape Systems, for example, offered a $25,000 50GB DOT cartridge drive. Its 3Mbps transfer rate was a highlight. At the time, a similar magnetic media device held only 200MB. The empty cartridges would sell for $250. Drexler Systems was trying to make a credit card similar to a smart card using a similar material.

Over time, the math for these systems didn't work out. Once ICI determined that it would be impossible to keep selling the tape at such high prices, the company simply stopped making the stuff. The final decision to cease production came around 1994 to 1995. This killed most projects.

Kodak and others were looking into the material, but never went into production. Newer hard drive technology and advances in magnetic media continued to this day, and optical products have lagged. I saw a lot of odd prototypes for various laser hole-poking storage media, and few if any are being produced today. Some of the technology of digital paper is assumed to be embedded in writable CD-ROMs, which now sell for $1.50 for 650MB of storage.

Creo managed to sell off its business to E-Systems just before ICI stopped making the tape around 1993 to 1994. A total of 40 of these units were put in the field, and many are yet in use today. Dave Brown, still with Creo, says these things represented the end of reel-to-reel technology just before 3480 cartridges took over the market. The old machines are still in service, and the limited amount of tape is going to be used up soon—the end of a curious era.

Creo took its optical expertise and went into the prepress business. It is now the world's biggest maker of computer-to-plate printing equipment. The company is still in Vancouver and has a Web site at *www.creo.com.* ▼

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3. Cut out and mail the ballot. To vote online, use the ballot available on *computershopper.com* (*www.shopperchoice.com*). All entries must be received no later than August 15, 1999.

SAMPLE BALLOT

BEST PERIPHERAL	Manufacturer	Product
CD-ROM Drive	*Spinmeister*	*Storage 4X*
BEST SOFTWARE	**Publisher**	**Product**
Business Productivity	*Soft Stuff*	*Cubicle*
BEST PLACES TO BUY	**Advertiser**	
Multimedia Products	*MM Solutions Direct*	

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1. You are automatically entered in the 1999 SHOPPERS' CHOICE SWEEPSTAKES by printing your name, company, complete address, ZIP code, and daytime phone number on the entry form and voting for the best products and *Computer Shopper* advertisers that sell them. Limit one entry per person. Mechanically reproduced entries will not be accepted. Filling out the online ballot on the *Computer Shopper* Web site (*www.shopperchoice.com*) also enters you in the sweepstakes, as long as you complete all the ballot's personal information. Limit one online entry per person. All online entries must be received by 11:59 p.m. EDT on August 15, 1999. Normal Internet access and usage charges imposed by your online service will apply. Vote in any category in which you have personal knowledge, but you must vote in at least one category to be entered in the sweepstakes.

2. Mail your entry to: 1999 SHOPPERS' CHOICE SWEEPSTAKES, P.O. Box 7206, Melville, N.Y. 11775-7206. Mail-in entries must be postmarked by August 15, 1999, and received by August 22, 1999. If you wish to complete a ballot and none is available, you may request one by handprinting your full name and address on a postcard and mailing it to: Marketing Department, *Computer Shopper*, 28 E. 28th Street, 10th Floor, New York, NY 10016 by July 15, 1999. All entries become the property of Ziff-Davis Inc.

3. Prizes are: Grand Prize (1): *Computer Shopper* $3,000 shopping spree; First Prize (1): *Computer Shopper* $1,000 shopping spree; Second Prize (5): *Computer Shopper* $500 shopping spree; Third Prize (15): *Computer Shopper* $100 shopping spree. Grand, First, and Second Prize winners may order merchandise from three different advertisers. Third Prize winners may only order merchandise from one advertiser. Winners will select prizes from the January 2000 issue of *Computer Shopper*, available mid-December. In the event the prize selected is not available, winner will be notified and the cash equivalent will be awarded. Winners will be selected in a random drawing from among all completed ballots/entries received. Drawing will be conducted by National Judging Institute, Inc., an independent judging organization whose decisions are final on all matters relating to this sweepstakes. Odds of winning are dependent on the number of entries received. All prizes will be awarded, and winners will be notified by mail. Only one prize per individual or household. Prizes are nontransferable, and no substitutions are allowed, except by the sponsor, who reserves the right to award a prize of equal or greater value if advertised prize is unavailable. Sponsor and its agencies assume no responsibility or liability for damages, losses, or injury resulting from acceptance or use of any prize. Ziff-Davis Inc., its agencies, and its employees are not responsible or liable for any guarantee or warranty either expressed or implied on any prizes awarded. Taxes, if any, related to the prize are the responsibility of the individual winners. Winners may be required to verify their address, or execute and return an affidavit of eligibility and liability/publicity release within 14 days of notification attempt, or the prize may be forfeited and an alternate winner selected. No responsibility is assumed for lost, misdirected, illegible, or late entries or mail. Acceptance of prize constitutes permission to use winners' names and likenesses for publicity purposes without further compensation, except where prohibited by law. Sponsor and its agencies are not responsible for technical, hardware or software malfunctions; lost or unavailable network connections; or failed, incorrect, inaccurate, incomplete, garbled or delayed electronic communications whether caused by the sender or by any of the equipment or programming associated with or used in this sweepstakes or by any human error that may occur in the processing of the entries in this sweepstakes. Sponsor reserves the right to cancel the online portion of the promotion if it becomes technically corrupted.

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5. For a list of winners, available after November 15, 1999, send a stamped, self-addressed envelope by November 15, 1999, to: 1999 SHOPPERS' CHOICE WINNERS LIST, P.O. Box 7206, Melville, NY 11775-7206.

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3. **Cut out and mail your ballot or vote electronically.** All entries must be received no later than August 15, 1999. Limit one entry per person.

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BEST COMPUTER SYSTEMS	Manufacturer	Product	
High-End Desktop PC			101
Value Desktop PC			102
Home PC			103
High-End Notebook PC			104
Value Notebook PC			105
Lightweight Notebook PC			106
PDA/Palmtop PC			107
Network Server			108

BEST PERIPHERALS/COMPONENTS	Manufacturer	Product	
Motherboard			201
CRT Monitor			202
Flat-Panel Display			203
Graphics Card			204
DVD-ROM Drive			205
CD-R or CD-RW Drive			206
Hard Drive			207
Removable/Backup Drive			208
Modem			209
Sound Card			210
Speakers			211
Inkjet Printer			212
Laser Printer			213
Scanner			214
UPS			215
Digital Camera			216

BEST SOFTWARE	Publisher	Product	
Business Productivity			300
Personal Productivity			301
Graphics/Design			302
Web Authoring			303
Games/Multimedia			304

BONUS	Vendor	Product	
Best New Product of '99 (Hardware or Software)			500

BEST PLACES TO BUY	Advertiser	
Desktop PCs		501
Notebook PCs		502
PDAs/Palmtop PCs		503
Motherboards		504
Printers		505
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- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 4.0GB, 6.0GB, or 10.0GB Hard Drive opt.
- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120, Iomega Zip Drive, or 2nd HDD
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- 75.6w Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 1 IEEE 1394 Port & 1 Video-In Port
- 2 USB Ports & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- Microsoft® Windows® 98
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64MB SDRAM expandable to 384MB
Removable 6.0GB Hard Drive
24X CD-ROM Drive (4X DVD opt.) **$2495**

8250

Common Features

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- 128KB On-Die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 4.0GB, 6.0GB, or 10.0GB Hard Drive opt.
- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120, Iomega Zip Drive, or 2nd HDD
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- 75.6w Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 2 USB Ports, 1 TV-Out Port & 1 Video-In Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Line-In, 1 Line-Out and 1 Microphone
- Microsoft® Windows® 98
- Carrying Case and AC Adapter

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- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120, 2nd HDD or 2nd Battery
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 2 USB Ports & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
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Intel® Celeron™ Processor 466MHz
64MB SDRAM expandable to 256MB
Removable 6.0GB Hard Drive
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2100

Common Features

- 256KB On-Die L2 Cache
- 2X AGP 8MB ATI Rage Pro 3D Video
- Removable 4.0GB, 6.0GB, or 10.0GB Hard Drive opt.
- Removable 3.5" 1.44MB FDD exchangeable with opt. LS-120, 2nd HDD or 2nd Battery
- 3D Surround Sound with Hardware Wavetable
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- Smart Lithium-Ion Battery
- Infra Red, Wireless Fast IR Interface
- 1 Video-In Port
- 2 USB Ports & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
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1200

Common Features

- 512KB L2 Pipeline-Burst Cache
- 4MB Video SGRAM
- PCI Bus 3D Graphics Accelerator
- Built-In 4.0GB, 6.0GB or 10.0GB Hard Drive opt.
- Built-In 3.5" 1.44MB FDD
- 3D Sound Effect
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- Smart Lithium-Ion Battery
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Built-In 6.0GB Hard Drive
24X CD-ROM Drive (4X DVD opt.) **$1695**

1200

Common Features

- 512KB L2 Pipeline-Burst Cache
- 4MB Video SGRAM
- PCI Bus 3D Graphics Accelerator
- Built-In 4.0GB, 6.0GB or 10.0GB Hard Drive opt.
- Built-In 3.5" 1.44MB FDD
- 3D Sound Effect
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA Slots which support ZV-Port and Card Bus
- NiMH Battery (Smart Lithium-Ion Battery opt.)
- Infra Red, Wireless Fast IR Interface
- 1 USB Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Headphone and 1 Microphone
- A4 Size 86-Key Keyboard for Easy Typing
- Microsoft® Windows® 98
- Carrying Case and AC Adapter

12.1" SVGA Active Matrix Display
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AMD-K6®-2/400MHz Processor with 3DNow!™ Technology
64MB SDRAM expandable to 256MB
Built-In 4.0GB Hard Drive
4X DVD-ROM Drive **$1495**

5150

Common Features

- 128MB On-Die L2 Cache
- AGP 4MB ATI Rage Pro 3D Video
- Removable 4.0GB, 6.0GB or 10.0GB Hard Drive opt.
- Built-In 3.5" 1.44MB FDD exchangeable with opt. LS-120
- 3D Sound Effect
- 2 Built-In Stereo Speakers and 1 Built-In Microphone
- Built-In Touchpad Pointing Device
- 2 Type II PCMCIA Slots which support ZV-Port and Card Bus
- NiMH Battery (Lithium-Ion Battery opt.)
- Infra Red, Wireless Fast IR Interface
- 1 USB Port & 1 TV-Out Port
- Other Ports: 1S, 1P, Ext. Keyboard and Ext. CRT
- Jacks: 1 Headphone and 1 Microphone
- Microsoft® Windows® 98
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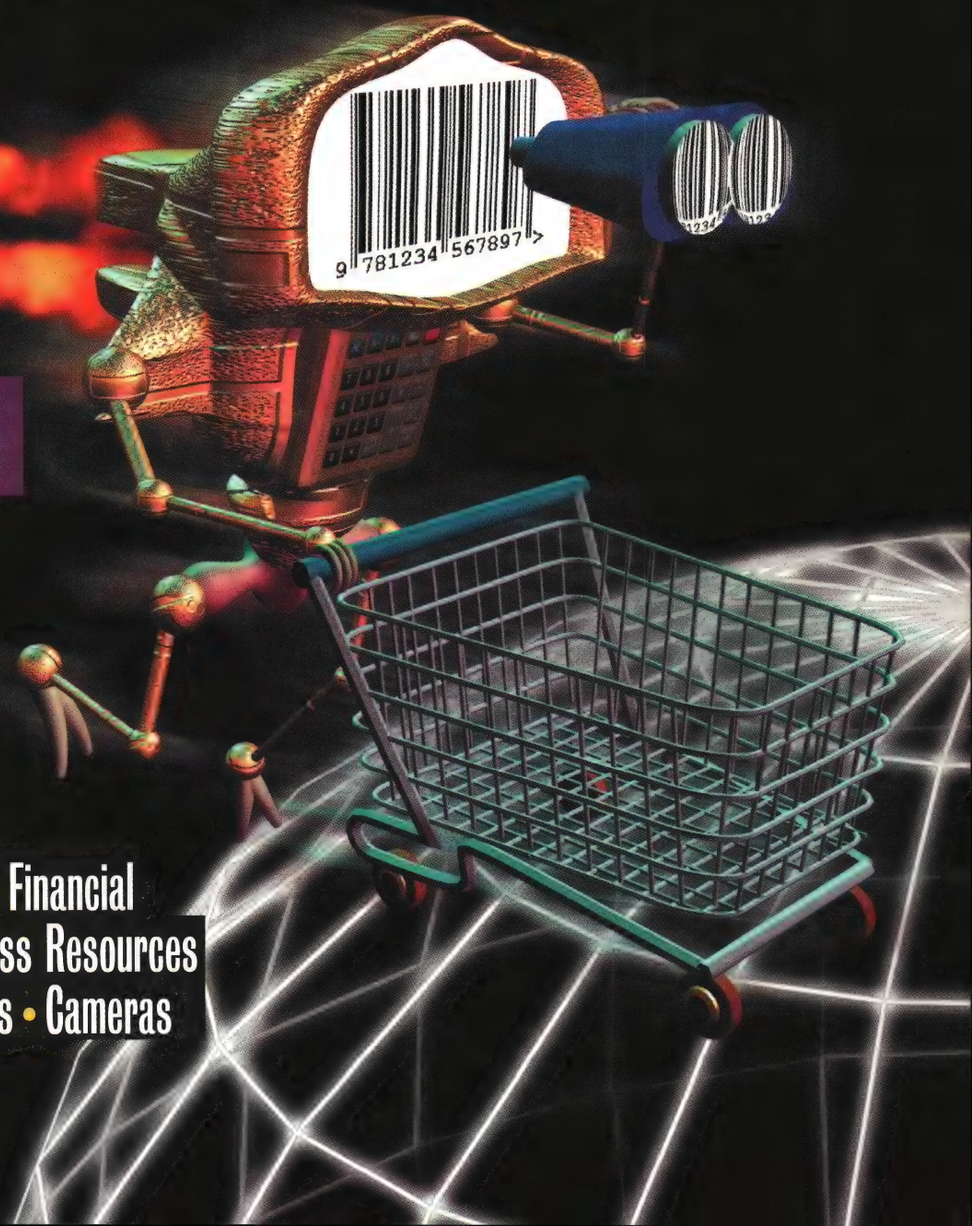
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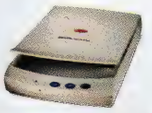
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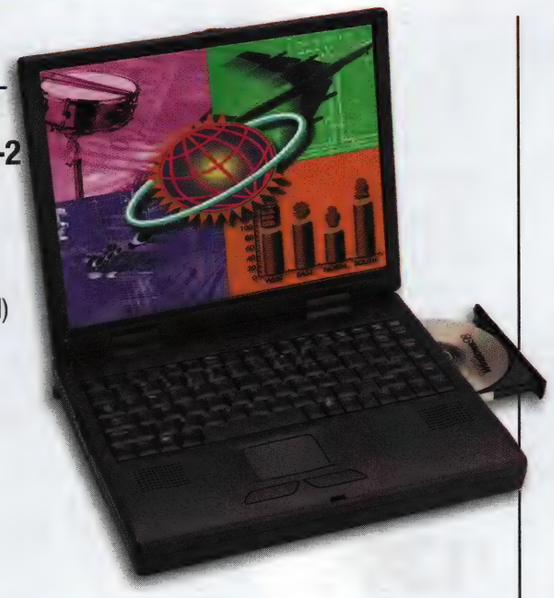


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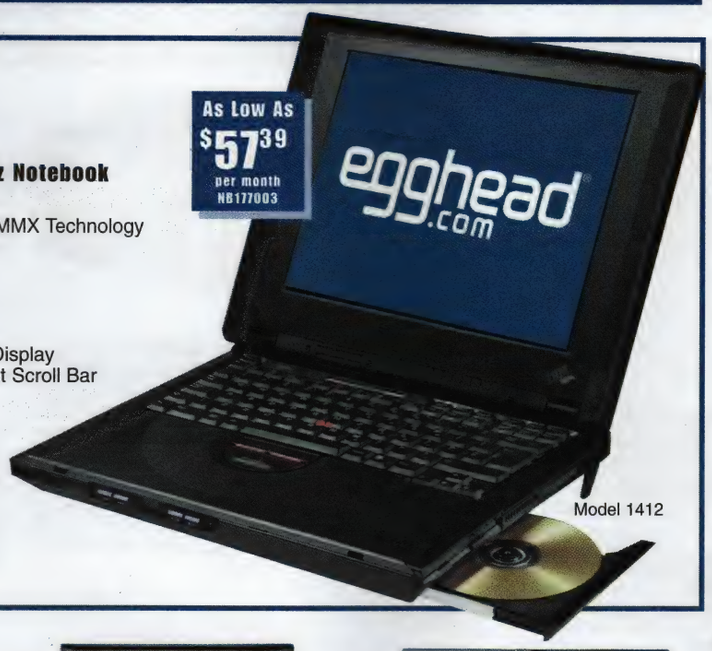
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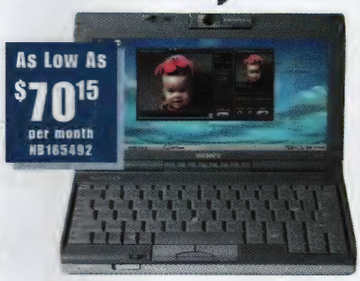
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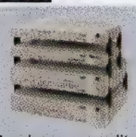
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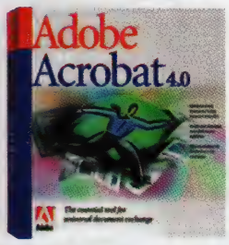
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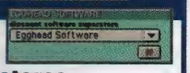
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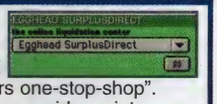
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TRENDS

Sites for All Ages

Whether you're in the market for a Porsche or a PlayStation, shopping just got easier.

Configuring and purchasing a $125,000 roadster online isn't kid's stuff, although plunking down $10 for a *Star Wars* action figure usually is. No matter which end of the buying—or age—spectrum you occupy, new sites enable you to shop without intervention from dealer or parents. Also debuting is a site that enables shoppers to take advantage of automatic rebates on purchases from scores of vendors.

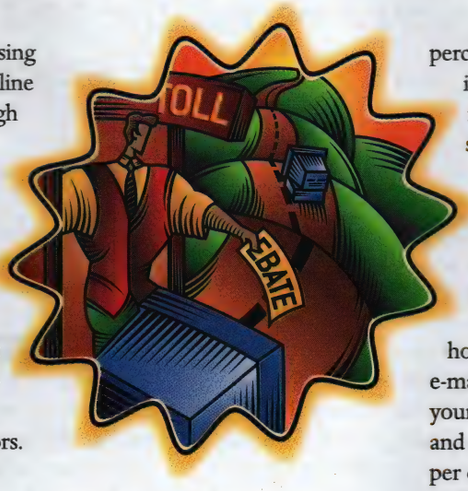


ILLUSTRATION BY TIM WEBB

The latter, a site for all ages called **ebates,** passes referral payments onto consumers. Referral payments are fees usually paid to other sites by merchants in exchange for guiding customers to their digital storefront. Just sign up for a free ebates account and e-mail address, then click through to any of the 55 merchant partners, such as **Amazon.com, CDNow,** and **PlanetRX.** Unlike other partnerships, ebates doesn't make exclusive arrangements with one merchant for a particular category; **Borders.com** sits alongside Amazon.com, for instance.

Rather than keep the merchant's referral fee, ebates will pay you a discount for going through its site to reach the merchant. These fees can be as high as 25 percent of the purchase, although for most of the big names, they are 5 to 8 percent—and sellers of PC products such as **Beyond.com, Dell Computer Corp.,** and **Outpost.com** offer only 1 to 3 percent. "When we thought of the idea, we couldn't believe nobody had done it already," says ebates founder Paul Wasserman. "The Internet is supposed to get rid of the middleman, and here's this savings that wasn't being passed along."

There are two catches, however: You must use the ebates e-mail address when you set up your account with the merchant, and ebates pays rebates only once per quarter.

Wasserman aims to make ebates the ultimate Web shopping portal, with advertisers vying to get a piece of the traffic it expects to pass along to shopping sites. While it's possible to find lower prices on the Web for many items, he argues that the numerous choices, name brands, and overall savings will entice mainstream buyers. Next steps include making special arrangements for higher referral fees from merchants (and more savings for ebates users), gift-reminder services, and electronic refunds rather than quarterly checks.

While referral dollars are the driving force behind ebates, a new site called **CarsDirect** aims to fuel its growth with some actual combustible horsepower. Unlike previous shopping services, CarsDirect, founded by idealab chairman Bill Gross, enables shoppers to complete the buying process without dealing with a dealer.

"Bill was trying to buy a BMW online, and all he got was every BMW dealer in his area calling him up," says CarsDirect chief executive Scott Painter. The site provides a configurator and options for every major make and model, and in addition to the sticker price and invoice, you get an instant CarsDirect price that is based on national sales data.

After you've configured your auto, a CarsDirect representative calls to confirm the order. CarsDirect delivers the car to a dealer in your area for pick up. Buyers in Los Angeles and San Francisco can have the cars driven directly to their driveways, a service that will be expanded to other cities in the future.

Those more likely to be shopping for skateboards than Saabs have a new ally in **RocketCash,** an electronic wallet and shopping site for teens who don't have credit cards. Parents deposit money into an online debit account that is debited as teens buy from a select group of merchants.

Unlike **IcanBuy,** a teen e-commerce site that primarily pulls products from partners into its site for one-click shopping, RocketCash enables teens to shop at the merchants' own stores. A RocketCash frame remains at the bottom of the screen displaying the account balance. When a teen checks out at the site, the RocketCash site prepopulates the forms with billing information that the buyer can't edit. Upon payment, the balance is adjusted automatically.

Also of interest to teens is a new music site that can help unsigned bands find a fan base. **Riffage.com** provides new bands with their own home page, chat room, and bulletin boards, while fans can create playlists of streaming-audio files.

Not only can you buy digital downloads of music, but Riffage expects to act as a fulfillment house for the CDs and T-shirts that most fledgling bands put together on their own. *—Jim O'Brien*

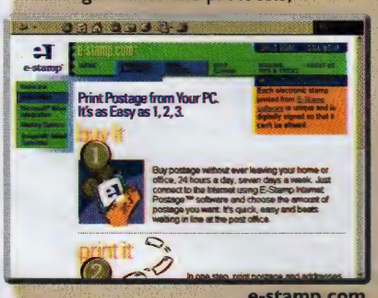
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E-Stamp Corp. is launching an eponymous service that will allow you to purchase U.S. postage online. A small parallel-port device works in conjunction with its site, *e-stamp.com,* to enable customers to purchase and then print postage. The first company to navigate the U.S. Postal Service's strict guidelines and protocols, E-Stamp targets small businesses with this product. Several companies, including **Pitney Bowes,** plan to follow suit with similar offerings.



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BOOK SMARTS

Independent bookstores have had an increasingly tough time competing against juggernauts like **Barnes and Noble** and **Amazon.com.** The **American Booksellers Association** has come to the rescue by gathering more than 1,000 independent bookstores that will hawk their wares online at *booksense.com.* Scheduled to makes its debut in early September, the site will feature buying advice from independent bookstore staffers. The ABA is banking on its belief that buyers will take to this touch of Main Street on the information superhighway. *—Brian Bennett*

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Bot and Sold

Shopping bots can guarantee you the best price on the Web, but make sure your bot is working for you.

BY DAN COSTA

Web shoppers have an ally online: automated agents that scour the Web looking for the best bargains on everything from airline tickets to Beanie Babies. More than just smart searches, these software agents, or bots, collect real-time pricing information for comparison shoppers.

But not all bots are created equal. Some list only merchants that pay to be listed or search only a limited number of online vendors, so savvy shoppers will take some time to get to know their bot before buying with it.

Although bot technology often involves a combination of Java scripts, Web spiders, and even XML coding, using bots to shop is simple. They work best with commodity items, but may also be used to find multicomponent configurable products like PCs.

Bots are ideal for shoppers who know what they want to buy, according to Kris Carpenter, director of search and directory services at Excite, which uses Jango-based bot technology in its Product Finder service.

"Where a bot provides the most value is in doing real-time searches of product availability and delivering that information to the consumer," Carpenter says.

SHOPPING FOR BOTS

As Carpenter's comments indicate, the potential of shopping bots to shape the buying behavior of online shoppers has not gone unnoticed by the giants of online commerce. If a portal site didn't have shopping-bot technology of its own, the site acquired it. In November 1997, for example, search-engine-turned-portal Excite acquired NetBot for its Jango shopping-bot technology. Jango is now used on Excite's Product Finder, an editorial-based service with a team of staffers who aggregate the best sites in product categories.

Inktomi also built its fortune with its search-engine technology, and late last year, the company used that fortune to buy C2B Technologies' shopping software. This software compares more than 460,000 products from 170 merchants. Even Amazon bought into the game by buying Junglee and its Virtual Database software.

This last deal ruffled a lot of feathers in the online community because Amazon was neither a portal nor a search company—at least not then. Competitors feared that Junglee's bot might favor its new owners. This fear turned out to be unfounded. Now, Junglee simply doesn't offer comparison services for books, movies, or just about anything else Amazon sells.

The fact that Junglee doesn't list these products says a lot about the bot business: Bots are only as good as the number of merchants they search, how much information they collect, and how quickly they do it.

"Junglee is a first-generation bot that paved the way," says Brian Rolfe, director of corporate communications at mySimon. "But it has been hamstrung by the acquisition by Amazon."

MYSIMON SAYS

One of the few shopping bots as yet unaffiliated with shopping portals or particular merchants, mySimon was founded in April 1998. It offers more than 10 million unique products from more than 1,300 merchants.

"To get the best value, you need to shop more merchants, not fewer," Rolfe says.

Rolfe calls mySimon a second-generation bot because unlike many shopping-bot companies, mySimon doesn't charge merchants to be listed or searched by its agent.

"The early bots took a slice out of the merchants' margins by taking a cut," Rolfe says.

Instead, mySimon pursues a business model much like that of the Yellow Pages. Any merchant can be listed, but mySimon charges to position merchant logos, brand names, and product information on its search pages. To stand out from the pack, online vendors need to invest in their brand.

The mySimon bot technology can also be used to search the ever-expanding number of auction sites. Just type in the name of the product you are interested in bidding on, and mySimon will go out and query all the auction sites and bring back a list of prices. It will also tell you how much time is left in each auction.

"If you are searching for a Beanie Baby," Rolfe says, "we can make sure you get the lowest price."

MySimon uses a proprietary bot technology called Virtual Learning Agent (VLA) that lets it quickly adapt to price and product changes online. With first-generation bots, it took as many as five days to write a single Java wrapper, a piece of software that would let the bot shop at online vendors' sites. For example, when Amazon started selling movies, shopping-bot companies had to write new wrappers to accommodate the changes.

Automatic Coupon Clipper

CouponSurfer.com takes a slightly different approach to shopping bots. Its Coupon Butler scans the Web to find online coupons. Anyone can search the site for coupons, but all must register to redeem the coupons, customize the site, and use the site's Coupon Butler bot notification service.

"It really allows consumers to be in control," says Adam Schwartz, president of CouponSurfer.com. "It allows them to say, 'Here is what I want; tell me when it is available.'"

CouponSurfer has partnered with companies like Beyond.com, CDNow, NetGrocer, and OfficeMax to deliver the coupons. The real value is the ability for shoppers to customize the Coupon Butler's selections.

"Some people shop by brand; others are looking for a particular item," Schwartz says.

The site also takes care of the information shoppers entrust to it. Bots collect personal information and interact with Web merchants, which can make shoppers uncomfortable. So CouponSurfer makes customer-profile information available only in aggregate form.

"Merchants can find out how many women from the 90210 ZIP code redeemed a coupon, but not who they are," Schwartz says. ▼



ILLUSTRATION BY DAVE TEICH

"It took us maybe a day to teach mySimon to search for movies on Amazon," Rolfe estimates.

The advantage comes from the way mySimon "learns" how to shop. According to Rolfe, employees with just a little bit of HTML knowledge can train mySimon to shop at a particular site. The company currently has 10 employees it calls Simon Product Intelligence (SPIs) training mySimon full-time. Rolfe compares the process to taking children shopping: "You need to show them how to find the item, where the price tag is, how to read the label, and so on."

HANDS ON THE BOTS

To get an idea of how bots work, we searched for Neal Stephenson's new $29.95 sci-fi novel *Cryptomonicon* the week it was released in May 1999. MySimon searched 41 online booksellers and found 15 that offered the book. Amazon.com and Barnes & Noble offered the book for 40 percent off at $16.50, beaten only by Books.com's $16.45 price tag. Most prices ranged from $19 to $23. The service also provides links directly to the merchant sites.

If you head over to Best Book Buys (*www.bestbookbuys.com*), you can get the shipping and handling charges factored in as well. The three vendors listed above all charge a flat fee of $3.95 for shipping and handling for a single book. This doesn't include discounts for multiple product orders or express shipment, but it provides a more accurate reflection of the true cost.

Next, we decided to find the best deals on 3Com's Palm V handheld personal organizer. Excite's Jango searched 14 sites, and 12 of them had the product. The lowest prices were offered by Computerstore.com ($372.99) and AccessMicro ($377.10). Considering that the highest price was $447.97, the bot could save you big money.

Of course, bots haven't cornered the market on bargains. At computershopper.com (the online complement to *Computer Shopper*), vendors must pay to be listed in the searchable database, and no bot technology is involved. Nonetheless, the site lists 12 vendors offering the Palm V, including Onsale, which beat all comers by charging only $362.29.

NOT THE BOT-TOM LINE

Clearly, bots give consumers enormous power to compare prices Web-wide in an instant—too much power, in the minds of some vendors. Because it is tough for an online vendor to compete with this kind of perfect pricing intelligence, many initially tried to shut out bots by blocking all traffic from their IP addresses.

Excite's Product Finder team has also found some vendors that don't want to be listed, although Carpenter says these are most often sites providing content such as product reviews that they don't want replicated. Now, however, most vendors see bots as traffic and sale generators.

Furthermore, it appears that getting the lowest price isn't always the most important thing to online shoppers.

"Buyers went with the price leader only 18 percent of the time," Rolfe says. "Many still wind up going with the brand they trust." Excite's Carpenter has seen a similar trend on its Jango-based Product Finder.

"Very few of our consumers sort by price," Carpenter says. "I think there are still a lot of consumers that need to feel comfortable with the vendor they are dealing with."

At least, that is, until they build some level of trust and comfort with their shopping bot. ▼

Chatterbots Deliver 24/7 Support on the Web

Shopping bots aren't the only automated agents working on behalf of shoppers online. Web merchants are looking to advanced chatterbots to interact with customers, answer questions, and eventually even make sales.

Chatterbots are online robots that mimic human interaction. Around for some time, they have recently been co-opted for customer-support duties. One pioneer in the virtual-support business, Artificial Life, is planning a suite of bot-based customer-support tools. The company currently offers a Web-guide bot, which will greet customers and attempt to answer their questions.

"He will engage you in a discourse, answer questions, and possibly serve up Web pages," says Robert Pantano, chief financial officer at Artificial Life. The company employs a cobalt-blue animated chatterbot that is named Roy on its corporate Web site at *www.artificial-life.com*.

The bots use natural-language processing to "understand" a user's comments. They use a combination of context sensitivity, memory of previous comments, and pronoun recognition to make their interactions more lifelike.

"Even when we cannot understand what a user is saying, we still need to come up with an intelligent answer," says Paollo Gaudiano, Artificial Life's chief scientist.

The information collected during these interactions is then saved in a knowledge base so user profiles can be created. One of the holy grails of Web sites is a way to collect the demographics and profiles of people who visit, Pantano says, so you can make improvements targeted directly at them.

This summer, Artificial Life will release a messenger bot that will serve as an intelligent automated e-mail response system. According to Gaudiano, this kind of automation is becoming the main priority in companies that provide customer support. The messenger bot uses FAQs, boilerplate e-mail messages, case-based reasoning, and natural-language processing to support the customer. It can also forward a customer to a live support representative if the customer's needs are beyond its abilities.

"We are not trying to supplant people, but to add a level of efficiency," Pantano says. "We are hoping to eliminate the first-, second-, and maybe third-level questions that can be handled easily and don't require the most highly paid support person."

Artificial Life wouldn't disclose who its first clients would be, but predicted they would be in the online financial and retail industries. By the end of 1999, the company is planning on creating a sales bot capable of closing deals with end users. ▼

WWW.STAPLES.COM

Staples Online Takes Supply-Shopping to the Next Level

Staples' elegant Web site makes it so simple and fun to shop for computer accessories, software, and office supplies that you may opt for the company's cyber-store over its brick-and-mortar branch—even if the latter's just down the block. Staples' e-store couples the convenience of at-work or at-home shopping with the massive array of products that the terra firma Staples stores provide.

Myriad time-saving features expedite your hunt for office supplies. These include personalized lists of items you regularly buy, e-mail reminders, and the ability to review your purchase history.

The online catalog offers more than a dozen



desktop and notebook computers, as well as handheld PCs, printers, and a bevy of peripherals and software. When you're looking for necessities such as printer ink, toner, fax paper, or even typewriter ribbons, the site's product-matchmaker feature calls up and displays accessories compatible with your equipment. If you're in a browsing mood, you can stroll the virtual aisles of this massive inventory with ease because it's arranged in intuitive categories such as phones/communication, janitorial/breakroom, furniture, and binders/filing. If you know just what you want, search the catalog by keyword, brand, or item number. You may elect to see search results with or without product pictures.

Office managers can streamline orders by creating group accounts that let associates select the products they need. These requests may be approved later by a manager before shipment. Another unique feature is the ability to "mark your favorite aisles"—tell the site what types of products you usually buy, and it will create a personalized menu so you can find what you need quickly.

Another lure: If you live less than 30 miles from a Staples store and order more than $50 of products, your order will be delivered the next day for free. Orders placed outside of local trading areas are shipped via UPS.

The Staples Web store includes an informative FAQ to answer any queries about order tracking, delivery, returns, and more. If you cannot find the answer you need in the FAQ, there are a variety of e-mail links for customer service. ▼

COMPILED BY KEVIN SAVETZ AND PEACE GARDINER

PC Shopping Sites

The sites in this listing sell products from multiple manufacturers. See *Computer Shopper*'s Source Directory for more information on PC manufacturers offering only their own brand (such as Dell or Gateway).



Aberdeen

Aberdeen.....**www.aberdeeninc.com**

Deep discounts and extensive technical information on computer hardware.

Features • new products added monthly • easy-to-use system configurator • multimedia and networking supplies

Caveat • tiny software selection only offers one brand

Access Micro.....**www.accessmicro.com**

When browsing the selection of merchandise at Access Micro, don't forget to check out the great weekly deals. With 45,000 items ranging from memory to T1 routers available, shoppers will enjoy perusing the variety at this searchable site. The help desk and hardware guide provide aid to first-time visitors.

Features • online order tracking • government and educational discounts • international orders are welcome

Aiyamicro.....**www.aiyamicro.com**

Aiyamicro sells PC systems, parts, and peripherals. Whether you're shopping for a custom laptop, a peripheral, software, or even a complete computer system, custom quotes are available within one day. You can browse by category—CPUs, backup devices, monitors, and so on. Aiyamicro also offers buyers a variety of software ranging from Windows NT server software to children's titles.

Features • message boards and chat sessions • online customer service and technical support • links to manufacturers' sites

Caveat • no product-search function

Anything.....**www.anythinginc.net**

You can find almost everything at Anything: PC, Mac, and Unix products. Tell the site what platform you're interested in, and it displays a catalog of available hardware, software, and accessories for that system. Anything offers handy search features and is less cluttered than most sites, making it easy to find the products you need.

Features • offers Microsoft Open License software • 170,000 products • most U.S. deliveries within 72 hours

Applied Computer.....**www.applied-computer.com**

Applied Computer offers free online purchasing consultation, and will match or beat any advertised price. The handy RAM reference feature will help you determine what type of memory your PC needs, as well as whether it's in stock.

Features • more than 300,000 products • RAM reference simplifies upgrades • training classes are available

AtomicPC.....**www.atomicpc.com**

Buy computer equipment and help save the world in one fell swoop. AtomicPC is a unique online store with the mission of funding charities involved in the preservation of the planet and humankind. The AtomicPC site offers 35,000 products, including computer hardware, software, and accessories, with about half of the listed items available for immediate shipping.

Features • portion of proceeds go to environmental, health, and social charities • can verify that any item is in stock • self-study training books and videos available



Audible

Audible.....**www.audible.com**

What happens when you take the common book-on-tape and transform it with the Internet? You get Audible, a unique way to educate and entertain yourself. Buy and download audio programs, such as *The Wall Street Journal* or best-selling books. Then hear the programs on your computer system, or use a portable player to listen in the car or while jogging.

Features • download fiction and nonfiction books • RealAudio files for PC or portable player • free programs available



Black Box

Black Box ..... **www.blackbox.com**
Specializes in cabling and network-connectivity products.
Features • detailed, 900-page downloadable catalog • order online or request a quote • warehouse-clearance specials
Caveat • Can't browse catalog online

BuyComp.com ..... **www.buycomp.com**
BuyComp is devoted to computer hardware, including systems, PDAs, peripherals, and networks. This elaborate site is part of an army of e-commerce sites, including BuySoft for software, BuyBooks, BuyVideos, and BuyGames. You can jump between stores in a flash, plunking disparate products into your virtual shopping cart for bundled delivery.
Features • powerful product-search tools • lease option on all systems • huge selection of DVDs

Buy Now ..... **www.buynowcomputers.com**
Shopping for a PC is easy at Buy Now, especially for those who know exactly what they want. Buy Now carries top PC brands, Apple Computer products, and custom systems. The easiest way to search this site is by manufacturer part number.
Features • more than 30,000 in-stock items • customer service available via e-mail • same-day shipping

Cables To Go ..... **www.ctghub.com**
Cables To Go sells every conceivable cable and adapter your PC might need, from standard SCSI to esoteric system-specific cables.

CDW ..... **www.cdw.com**
CDW offers an impressive array of hardware and software. If you're buying a new PC, a PDA, a monitor, a modem, a digital camera, or a printer, the site's CDW Compare tool shines. Choose up to five products you are considering, and it will display side-by-side comparisons of them, including their photos, specs, prices, and warranties.
Features • in-stock items are clearly marked • list of available rebates • can browse just products with manufacturer rebates

Chili Pepper Computer ..... **www.chilipepperpc.com**
Shoppers can explore the large selection of hardware and software available at Chili Pepper Computers by searching by keyword or manufacturer part number. The funny and informative "about us" section gives users an opportunity to learn about the economics of buying and selling on the Internet. Customer service and technical support are available via e-mail.
Features • hard-to-find motherboards • in-stock items easily identified • networking equipment

ClubComputer ..... **www.clubcomputer.com**
This site sells custom-built PCs, computer furniture, and a wide variety of peripherals and accessories. Every item has two prices: a regular price and a member price.

CNET Shopper.com ..... **cnet.shopper.com**
CNET's Shopper.com, a computer product and pricing search engine, takes the guesswork out of finding a deal on hardware, software, and accessories. Tell it what you're seeking, and the site quickly serves up a list of online stores that sell the item—along with its cost at each store, sorted by price. The site tracks the prices of more than 100,000 products. The database is updated daily.
Features • locates the best price among 100 online stores • gives approximate shipping cost and number of units in stock (for some items) • provides phone numbers and links to each store

CompUSA Online ..... **www.compusa.com**
If you happen to live out of range of CompUSA's 200 stores nationwide, or if you prefer to do your buying research or shopping online, visit the superstore's Web site. The site is as impressive as the company's retail stores, offering a veritable cornucopia of PC products, accessories, and software.
Features • deals on clearance, demo, refurbished, and opened-box items • Apple products • driver-software archive

CompuPlus Computer Centres ..... **www.compuplus.ab.ca**
Customer service and customization are the top selling points.
Features • variety of options for system configurations • quotations are handled by a real salesperson • price quotes in U.S. and Canadian currencies • complete systems available with or without an operating system
Caveat • price quotes provided via e-mail

Comp-U-Plus Direct ..... **www.compuplus.com**
Offering an assortment of PC hardware, Comp-U-Plus highlights its customer service, offering a 30-day money-back-guarantee policy with no restocking fee. In addition, the company offers free technical support. The site's database of support FAQs offers answers to hundreds of questions. Its online catalog isn't the biggest, but plenty of name brands are represented, and prices are reasonable.
Features • online order tracking • large close-out section
Caveat • no search engine

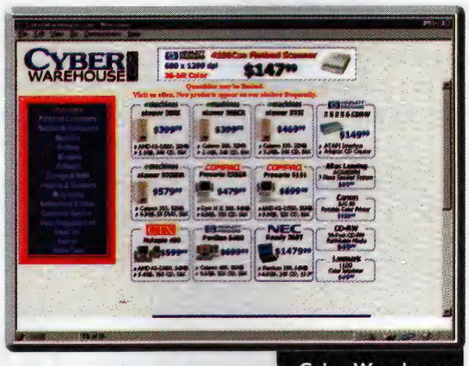
computercomputer.com ..... **www.computercomputer.com**
Interested in buying components and piecing together your own custom PC? The Web site for computercomputer.com sells bare-bones systems that'll make a good starting point. It also offers plenty of complete systems. These come with technical support via telephone and a one-year onsite warranty. The site's affiliated software link carries more than 100,000 titles. Quotes on custom systems are available online or via telephone.
Features • online system configurator • bare-bones systems for do-it-yourself fun • modems and networking supplies

Computer Literacy Bookshops ..... **www.clbooks.com**
A bookstore devoted to computer books, training manuals, documentation, and research reports.

Computer Quick ..... **www.cqk.com**
Offers plain-box, best-buy, and close-out merchandise in addition to a selection of more than 73,000 items in regular stock.

Computers4Sure **www.computers4sure.com**
Fifteen diverse departments offer a wide range of products from networking equipment and peripherals to PDAs and scanners. Computers4Sure has top brands and more than 30,000 products. Shoppers can keep tabs on their spending with the Shopping Cart subtotal, which is always onscreen.
Features • can power-search for a specific product • daily and blue-light specials • hundreds of software titles

computershopper.com ..... **computershopper.com**
Computer Shopper's own computer-buying site on ZDNet offers the choice of buying hardware and software products (new, overstocked, and refurbished) by phone, through a secure connection, or via links to vendor Web sites. It also provides access to reviews from all ZD publications, interactive guides to choosing a desktop or a notebook, and How to Buy sections on the most popular product categories.
Features • thousands of products from more than 120 vendors • side-by-side comparisons of the listings that interest you most • daily and weekly advice on new products and good deals



CyberWarehouse

CyberWarehouse ..... **www.cyberwarehouse.com**
A discount outlet offering PCs, monitors, modems, printers, other peripherals, and software.
Features • can see whether product is new, refurbished, and so on • all items include warranty • "What's New, What's Hot" newsletter
Caveat • may take up to five days to ship

Dalco Electronics ..... **www.dalco.com**
Offers a wide array of system accessories and custom-built cables.
Features • overnight shipping • free product support • excellent return policy

Damark.....www.damark.com
Offers low prices on new but discontinued computer systems from Acer, Fujitsu, Packard Bell, and other manufacturers.

Dirt Cheap Drives.....www.dirtcheapdrives.com
Offers a wide variety of storage hardware, media, and related accessories.
Features • Internet Specials page offers deals and close-outs • detailed archive of technical-support information • quantity discounts available
Caveat • buyers must call to find out shipping charges

Electrified Discounters.....electrified.com
Specializes in products that are discontinued, refurbished, off-lease, or otherwise not state of the art.
Features • 30-day guarantee on all items • Se habla español
Caveat • minimum order is $50, $100 for credit-card orders


Electronics Boutique

Electronics Boutique.....www.ebworld.com
Game software for your PC and your Mac, as well as titles for the PlayStation, Nintendo 64, and other game consoles.
Features • new releases and hot products • can search for age-appropriate games • lists release dates for new game titles

Firstsource.com.....www.firstsource.com
Offers 110,000 computer-related products and an easy-to-use order-tracking system.
Features • e-mail alerts for product specials

Global Mart.....www.globe-mart.com
Global Mart's computer area is well-organized, so shoppers can zoom right to the product category they want, whether it's video splitters, flat-panel displays, digital cameras, or multifunction printers. The great selection here includes handheld PCs and UPS backup systems. This Web shop also has a software affiliate with 100,000 titles.
Features • selection of factory-serviced PC values • monthly product specials • electronics and tools available

HardwareStreet.com.....www.hardwarestreet.com
Shoppers in the market for hardware, software, and networking products can choose from more than 39,000 products at HardwareStreet. In addition, 1 percent of all profits go to the National Forest Foundation, so you can help the environment while getting the merchandise you need. Affiliated sites DownloadDrive.com and SoftwareStreet.com offer thousands of software choices.
Features • 1,100 brands offered • free newsletter • great selection of digital cameras

iDot.com.....www.idot.com
Preconfigured or custom-built PCs. Each machine comes with a one-year onsite warranty—upgradable to three years.
Features • onsite-service warranty for all systems • technical support by phone, e-mail, and Web • equipment leases available

Insight Enterprises.....www.insight.com
Insight specializes in hardware and software. Peripherals abound—if you need a new modem, a keyboard, or a printer, Insight's well-organized category list will put copious choices in reach. You can order a preconfigured computer with just a few clicks or use the site's Configurator to customize the machine of your dreams. The search engine is better than most, letting you limit your system search based on price.
Features • can find out immediately if a product is in stock • free newsletters featuring tech news, closeouts, and new products • separate sites for the United States, Canada, Germany, and the United Kingdom



J and R Computer World

J and R Computer World.....www.jandr.com
PC and Mac users can find merchandise at this diverse site. Whether you're shopping for an IBM Aptiva or an Apple iMac, hardware and accessories for you abound at J and R, making this a one-stop shop for many. Shoppers will also enjoy the complete selection of office, educational, and gaming software.
Features • 24-hour customer service • DVD-ROMs • home video-game systems
Caveat • shipping charges not calculated online

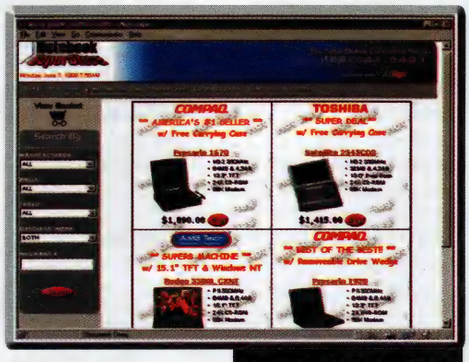
MacNet.....www.applemacnet.com
A reseller of Apple, PC, and other computer systems, as well as peripherals and software.

McGlen Micro.....www.mcglen.com
This online store offers more than 40,000 items, from desktop systems to digital cameras. Specialized searches for memory, supplies, and laptop upgrades can help you find items compatible with your computer, printer, and copier. McGlen Micro is fast, attractive, and easy to use.
Features • shortcuts to high-traffic areas of the site • can find compatible memory for your computer by specifying its make/model • real-time order tracking

MicroWarehouse.....www.warehouse.com
There's nothing "micro" about this gargantuan computer shopping site. There are actually four "warehouses" under this roof selling PC hardware and software, Mac products, networking components, and supplies. Once you've used the thorough descriptions provided to locate the products you need, the site guides you to compatible accessories.
Features • free gift with every order • 90,000 downloadable software titles • low-cost clearance rack

Motherboard Superstore.....www.mssi.com
Specializes in motherboards, CPUs, and other PC innards—a do-it-yourselfer's dream.
Feature • photo and complete specs for each motherboard
Caveat • 15 percent restocking fee on returned items

NECX.....www.necx.com
You won't have difficulty finding any sort of computer product here. The site offers all manner of hardware, software, and accessories. A separate arm of the site, the Outlet Center, serves up a constantly changing menu of discontinued, open-box, and refurbished products.
Features • Outlet Center offers special deals • customizable free newsletter



Notebook SuperStore

Notebook SuperStore.....www.notebooksuperstore.com
Devoted exclusively to portable computers, Notebook SuperStore offers approximately 70 different laptop models from 10 manufacturers.

OfficeMax.....www.officemax.com
You'll find computers, other business machines, office furniture, and even paper and pencils under this virtual roof.

Outpost.com.....www.outpost.com
Formerly dubbed Cyberian Outpost, this site bears no resemblance to its cold and desolate former namesake. Now simply Outpost.com, this lush site is home to hardware, software, and accessories. Take a peek at the top 10 PC or Mac products, then visit the Game Outpost to get your playtime fix. The OutpostAuctions area lets you bid against other visitors for hardware.
Features • can view site in 12 languages • 15 manufacturer-specific subsites, Broderbund to Viking • "PCs Under $1,000" specialty shop

PC Mall.....www.cc-inc.com
If you've checked your mail this month, chances are you've received at least one PC Mall catalog. Its thick, colorful catalog is chock-full of PC products. Its Web site is just as dense, home to systems, hardware, and software. Check the clearance rack for bottom-dollar deals.
Features • tremendous product selection for PCs and Macs • ProductPro wizard finds products that meet your specifications • uBid auctions let you set your own price

PC Progress.....www.pcprogress.com
With great prices on hard-to-find components and peripherals, PC Progress feels like a well-organized flea market.
Features • many hard-to-find computer products at bargain-basement prices • well-designed site makes it easy to browse for products



QualityClick.com

QualityClick.com.....www.qualityclick.com
This Web store covers all the basics for the home PC user. Shoppers will be pleased to see the shipping charges and warranty information before placing an order; expected time until shipping is also listed.
Features • DVD and video systems • weekly specials • a variety of customer-service and tech-support options

Shopping.com.....www.shopping.com
An enormous site offering everything from hardware and software to automotive products, luggage, cosmetics, and baby products at below list price.
Features • all items sold at less than list price • stock status shown for all products

Sparco.....www.sparco.com
Sparco makes shopping for computer equipment simple, especially for anyone in the market for a specific product. Its catalog of more than 83,000 products can be viewed by category or manufacturer, or searched by part number. Inventory numbers are updated daily.
Features • will meet or beat others' prices • downloadable catalog for offline reading • 30-day money-back guarantee on most products

Staples.....www.staples.com
Featured site this month, See p. 124.

State Street Direct.....www.ssdonline.com
Offers PC hardware, peripherals, and accessories. You can view shipping cost and stock status before you place an order.

TechShopper.....www.techweb.com/shopper
Knowledge is power when you're choosing computer parts, and TechShopper may give you the knowledge you need. The site offers reviews, specifications, prices, comparisons, and ratings for thousands of computer products. These details can help you find the hardware and software that's right for you. And once you make a decision, you can buy your choice with just a mouse click (and some money).
Features • online shopping tips and articles • can sell your old computer in free classified ads • free weekly newsletter



TechStore

TechStore.....www.techstore.com
TechStore offers hardware in more than a dozen categories, ranging from CPU upgrades to storage devices. Additionally, the site offers a wide range of software: everything from Microsoft applications to the Mattel Interactive Winnie-the-Pooh. Overnight shipment is available, but TechStore's standard shipping will reach most destinations in the United States in 72 hours.
Features • competitive pricing • 30-day performance guarantee • 40,000 products

TigerDirect.....www.tigerdirect.com
This easy-to-navigate site offers custom-built computers, tested and shipped within 48 hours. Shoppers in the mood for an adventure can order a build-it-yourself custom PC kit. TigerDirect also has a complete selection of ready-made desktops, laptops, memory, peripherals, and software. The extensive customer care center offers a range of services from presale support to technical support for non-Tiger systems.
Features • technology guarantee provides low-cost upgrades • sign up for e-mail-only sales • Blowout Central offers great deals
Caveat • difficult to calculate shipping charges

Used Computer Mall.....www.usedcomputer.com
A marketplace for used computer equipment.
Features • lists computer shows, equipment auctions, and swap meets • index of nonprofit organizations accepting used-computer donations • can auction your own equipment
Caveat • cannot search classified ads

WebShopper.....www.webshopper.com
It's two, two, two sites in one! On the one hand, WebShopper is an online computer store with an impressive catalog of goodies for sale. On the other hand, it's a great place to research the products you're considering: The site includes product reviews and comparisons from *PC World, Home Office Computing,* and other magazines.
Features • may browse only award-winning products • select from eight free newsletters

Zones.com.....www.zones.com
Zones.com is the umbrella for two online stores, PC Zone and Mac Zone. Boasting an impressive product selection ranging from CPUs to books, the site will show you a picture of any item and its specifications, and tell you whether it is currently in stock. The auction area offers an opportunity to name your price for the products you want.
Features • 50,000 products • 100,000 downloadable software titles and images • printable rebate coupons

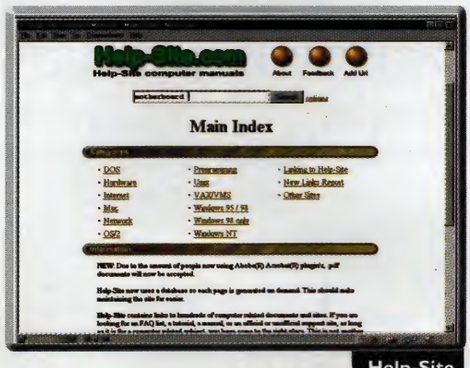
PC Resources

Center for the Study of Services.....www.checkbook.org
A nonprofit consumer organization operated by the Center for the Study of Services that helps consumers get the best prices for products and services.

eSmarts.....www.esmarts.com
A collection of buying guides for Web shoppers that cover online computer sellers, electronics stores, auction sites, banks, and various other e-commerce categories.

Federal Trade Commission.....www.ftc.gov
Content covers the spectrum of consumer fraud and how to avoid it—online and off.

56K Modem Central.....www.56k.com
A before-you-buy primer on 56Kbps modems and the latest firmware upgrades.
Features • buyer's guide and reviews • trouble-shooting guide diagnoses common problems • buy or sell used modems with free classified ads



Help-Site

Help-Site.....help-site.com
Links to hundreds of computer-related documents and sites.
Features • noncommercial site • well-organized documentation • bad links are automatically noted

Internet ScamBusters.....www.scambusters.com
A Web site and newsletter that helps Net users avoid scams.
Features • lists the top five scams of 1998 • exposes tricks of e-mail spammers • free e-mail newsletter

SECTION CONTINUES ON PAGE 130

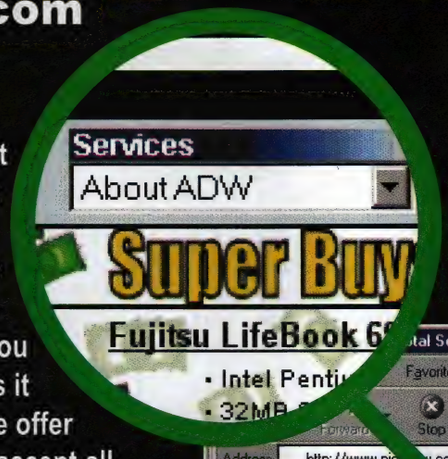
THE INTERNET'S TOTAL SOLUTION

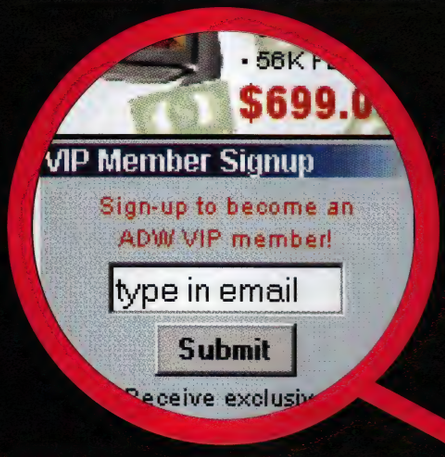
www.pickadw.com

- **1000s of Desktops & Notebooks in Stock**
- **New End-of-life**
- **Factory Refurbished**
- **Manufacturer Specials**

Services

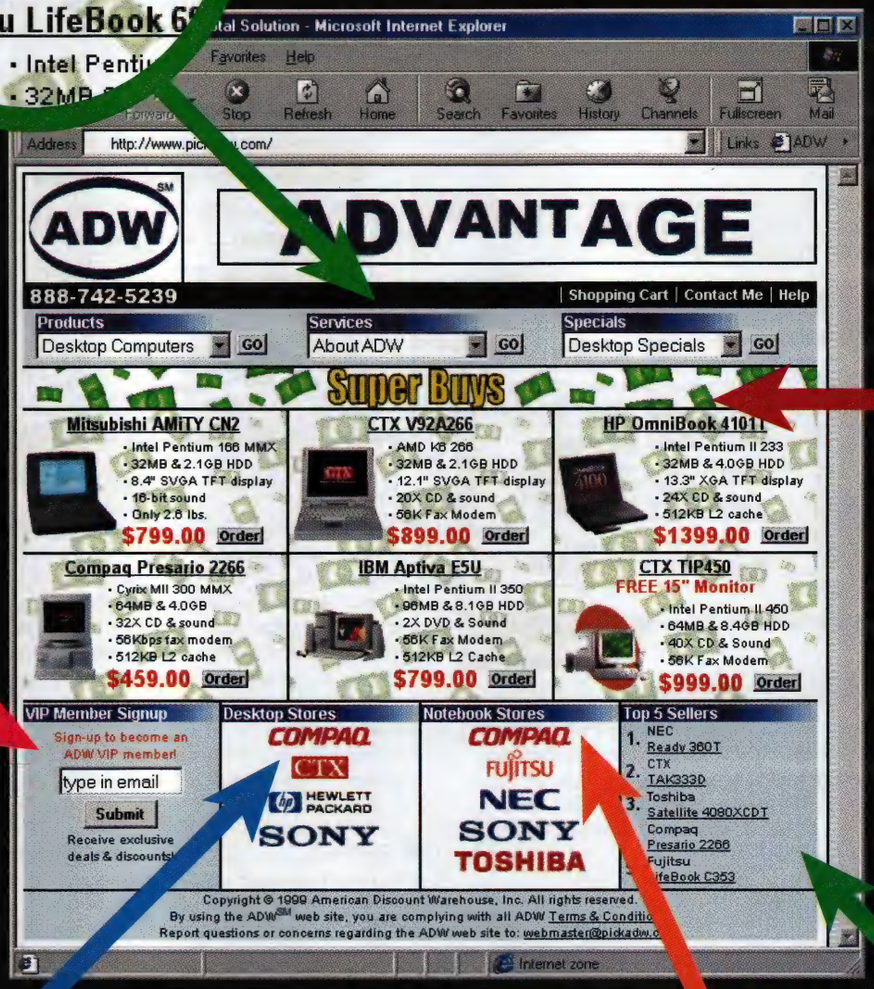
At ADW service is of the utmost importance. We try our hardest to have products ship right on time or even before the time we quoted you over the phone. We even automatically e-mail you tracking information as soon as it ships. For improved service, we offer speedy overnight delivery and accept all major credit cards for your convenience.





VIP Member Sign-up

At ADW we feel that becoming a member of a club shouldn't cost you an arm and a leg. That is why ADW now features a VIP member club. Becoming a member grants you special pricing on certain items, exclusive deals not available to anyone else on the web, and even free rebates on our latest products. Not only that, but ADW guarantees your privacy and confidentiality the whole way. Plus, it's FREE!





Desktop Stores

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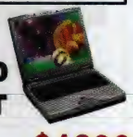


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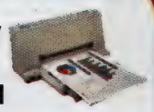
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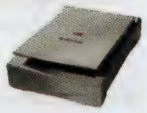


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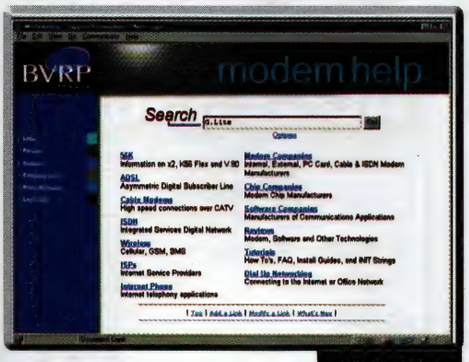
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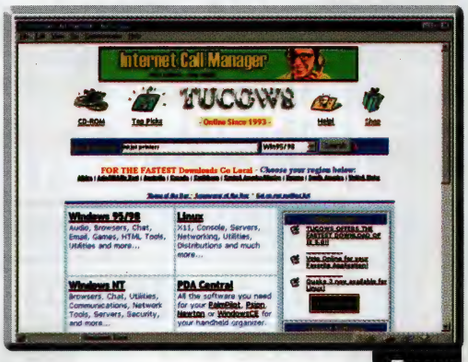
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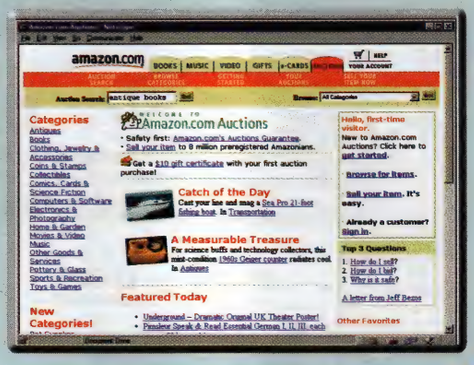
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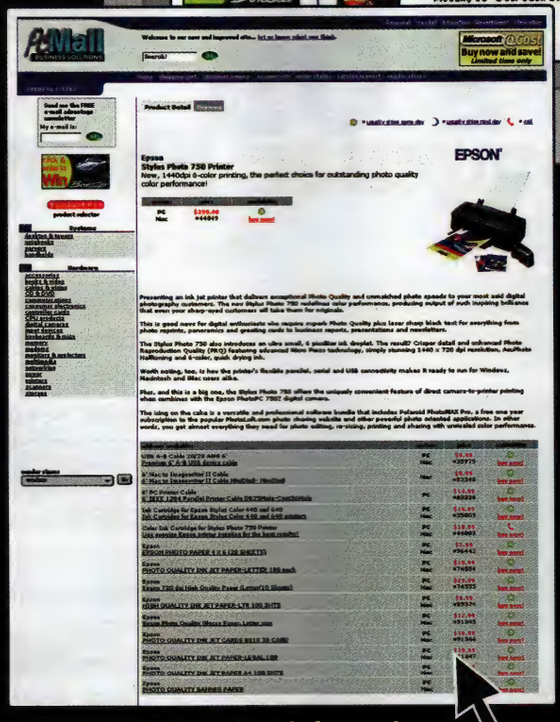
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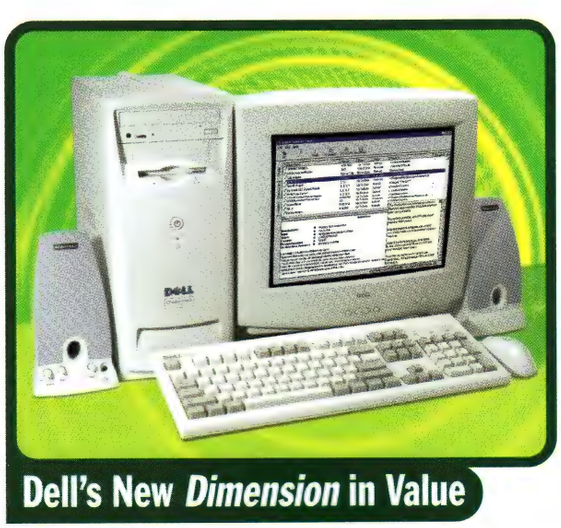
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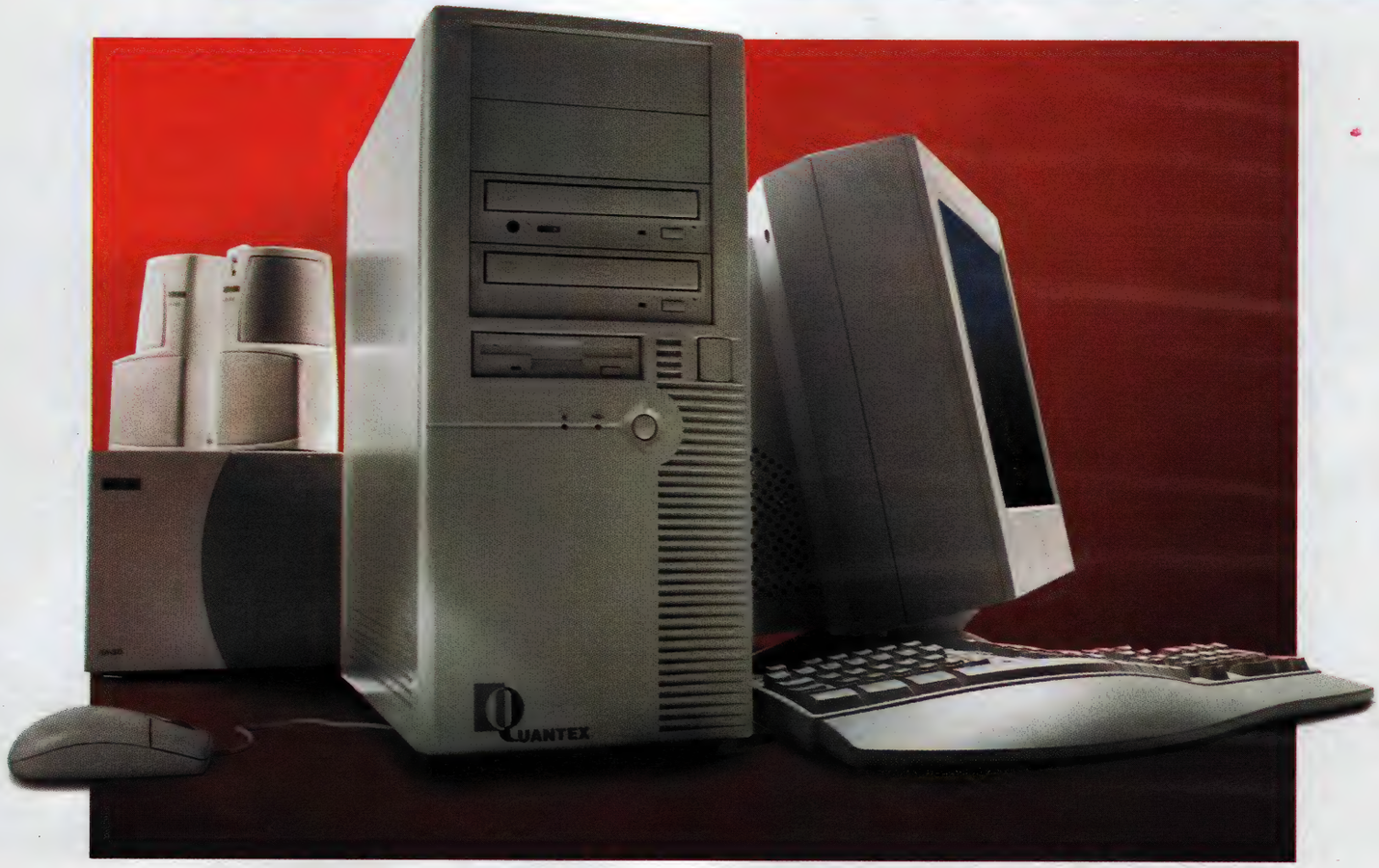
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WinList, Windows Magazine, January 1999
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PC World, May 1999, Satisfaction and Reliability Survey
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QP6/400 M-3x Computer Shopper, March 1999
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- **Intel® Pentium® III Processor 450MHz**
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- 10GB Ultra ATA Hard Drive
- 17" Monitor w/CromaClear CRT (16" vis)
- 3Dfx Voodoo3 2000 2x AGP Graphics w/16MB
- 40x Max Variable Speed CD-ROM Drive
- Aureal Vortex2 Sound, A3D 2.0 Technology
- Altec Lansing ACS-90 Speakers
- MS Windows 98 Second Edition
- *New* Microsoft Office 2000 SBE
- *Optional 36-bit Color Scanner, add $99*
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$1399

Business lease:$50/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08s14

VALUE DESKTOPS

Common Features: ✔ 3.5" 1.44MB Floppy Drive ✔ 512KB Secondary Cache (128KB Cache w/Intel® Celeron™ Processor-based PCs) ✔ Quantex ATX Mid Tower Case ✔ 104-Key Keyboard ✔ MS Mouse ✔ 3-Year Limited Warranty ✔ 24/7 Toll-Free Technical Support

QP6/500 M-4x SE

- **Intel® Pentium® III Processor 500MHz**
- 128MB PC100 SDRAM Memory
- 13GB Ultra ATA Hard Drive
- 19" Monitor w/on-screen display (18" vis)
- *New* S3 Savage4 2D/3D AGP Graphics; 32MB
- 3rd Generation DVD-ROM Drive
- 56K V.90 Telephony Fax/Modem*
- SoundBlaster AudioPCI 64V 3D Sound
- 3-piece Dynamic Stereo Speakers, Subwoofer
- MS Windows 98 Second Edition
- *New* Corel WordPerfect Office 2000

$1699

Business lease:$61/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08m10

QP6/450 M-3x

- **Intel® Pentium® III Processor 450MHz**
- 64MB PC100 SDRAM Memory
- 10GB Ultra ATA Hard Drive
- 17" Monitor w/on-screen display (15.8" vis)
- *New* S3 Savage4 2D/3D AGP Graphics; 16MB
- Internal 100MB Zip Drive
- 3rd Generation DVD-ROM Drive
- 56K V.90 Telephony Fax/Modem*
- SoundBlaster AudioPCI 64V 3D Sound, Speakers
- MS Windows 98 Second Edition
- *New* Corel WordPerfect Office 2000

$1299

Business lease:$64/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08m07

QP6/466 M-2c

- **Intel® Celeron™ Processor 466MHz**
- 64MB SDRAM Memory
- 10GB Ultra ATA Hard Drive
- 17" Monitor w/on-screen display (15.8" vis)
- Intel 2D/3D Graphics Accelerator
- 40x Max Variable Speed CD-ROM Drive
- 56K V.90 Telephony Fax/Modem*
- Dynamic Wavetable Stereo Sound, Speakers
- MS Windows 98 Second Edition
- *New* Corel WordPerfect Office 2000
- *Optional Canon MPC-3500 Printer, add $299*

$999

Q-QUOTE NUMBER: csa08m13

QP6/400 M-1c

- **Intel® Celeron™ Processor 400MHz**
- 64MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- 15" Digital Monitor (13.8" vis)
- Intel 2D/3D Graphics Accelerator
- 40x Max Variable Speed CD-ROM Drive
- Dynamic Wavetable Stereo Sound, Speakers
- MS Windows 98 Second Edition
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- 12.1" TFT Active Matrix Display
- 32MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 56K V.90 Fax/Modem*
- Modular 24x Max Variable Speed CD-ROM Drive
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- MS Windows 98
- *Optional Quantex Carrying Case, add $29*
- *Upgrade from 32MB to 64MB SDRAM, add $99*

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Business lease:$50/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08a00

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- **Intel® Celeron™ Processor 400MHz**
- 12.1" TFT Active Matrix Display
- 32MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 56K V.90 Fax/Modem*
- Modular 24x Max Variable Speed CD-ROM Drive
- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- MS Windows 98
- *Upgrade from 32MB to 64MB, add $99*
- *Optional Quantex Carrying Case, add $29*

$1499

Business lease:$54/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08a01

NEW Quantex B-1210

- **Intel® Celeron™ Processor 333MHz**
- 12.1" TFT Active Matrix Display
- 64MB SDRAM Memory
- 4GB Ultra ATA Hard Drive
- 56K V.90 Fax/Modem*
- Modular 24x Max Variable Speed CD-ROM Drive
- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- Quantex Carrying Case
- MS Windows 98
- *New* Corel WordPerfect Office 2000

$1599

Business lease:$58/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08a02

NEW Quantex B-1211

- **Intel® Celeron™ Processor 400MHz**
- 12.1" TFT Active Matrix Display
- 64MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- 56K V.90 Fax/Modem*
- Modular 24x Max Variable Speed CD-ROM Drive
- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- Quantex Carrying Case
- MS Windows 98
- *New* Corel WordPerfect Office 2000

$1699

Business lease:$61/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08a03

T-SERIES "MOBILE WARRIOR" NOTEBOOK

Common Features: ✔ 256K Performance Enhanced On-Die Cache ✔ 3.5" Modular Floppy Drive ✔ Smart Lithium Ion Battery ✔ USB and Fast IR Ports ✔ Integrated Personal Touchpad ✔ Integrated 16-bit Stereo Sound, Speakers ✔ 3-Year Limited Warranty ✔ 1-Year Parts and Labor Limited Warranty ✔ 24/7 Toll-Free Technical Support

Quantex T-1401

- **Intel® Pentium® II Processor 366MHz**
- Ultra-Thin Design (12.44"x9.84"x1.43")
- 14.1" XGA Active Matrix Display
- 64MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- Modular 24x Max Variable Speed CD-ROM Drive
- PCMCIA 56K Fax/Modem*
- NeoMagic NMG5 128-bit AGP Video
- Quantex Carrying Case
- **MS Windows NT Workstation 4.0**
- *Optional Internal Zip Drive, add $149*

$2299

Business lease:$83/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08t15

Quantex T-1411

- **Intel® Pentium® II Processor 366MHz**
- Ultra-Thin Design (12.44"x9.84"x1.43")
- 14.1" XGA Active Matrix Display
- 128MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- Modular 4x Max Variable Speed DVD-ROM Drive
- 56K V.90 Fax/Modem*
- NeoMagic NMG5 128-bit AGP Video
- Quantex Carrying Case
- MS Windows 98
- *New* Microsoft Office 2000 SBE

$2499

Business lease:$90/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08t11

I-SERIES "DESKTOP REPLACEMENT" NOTEBOOK

Common Features: ✔ 256K Performance Enhanced On-Die Cache ✔ ESS 3D Wavetable Sound & Speakers ✔ Smart Lithium Ion Battery ✔ TV-Out ✔ USB and Fast IR Ports ✔ Integrated Personal Touchpad ✔ 3-Year Limited Warranty ✔ 1-Year Parts and Labor Limited Warranty ✔ 24/7 Toll-Free Technical Support

Quantex I-1510

- **Intel® Pentium® II Processor 366MHz**
- 15" XGA Active Matrix Display
- 64MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- 56K V.90 Fax/Modem*
- *New* Modular 4x Max Variable Speed DVD-ROM Drive & 3.5" Floppy Combo Drive
- ATI Rage Lt Pro 3D AGP Video w/8MB
- Quantex Deluxe Carrying Case
- MS Windows 98
- *New* Corel WordPerfect Office 2000

$2599

Business lease:$94/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08i08

Quantex I-1511

- ***New* Intel® Pentium® II Processor 400MHz**
- 15" XGA Active Matrix Display
- 128MB SDRAM Memory
- 10GB Ultra ATA Hard Drive
- 56K V.90 Fax/Modem*
- *New* Modular 4x Max Variable Speed DVD-ROM Drive & 3.5" Floppy Combo Drive
- ATI Rage Lt Pro 3D AGP Video w/8MB
- Quantex Deluxe Carrying Case
- MS Windows 98
- *New* Microsoft Office 2000 SBE

$3199

Business lease:$109/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08i20

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Common Features: ✔ 512KB ECC Secondary Cache ✔ 3.5" 1.44MB Floppy Drive ✔ 40x Max Variable Speed CD-ROM Drive ✔ Intel Server Control Management Console ✔ 104-Key Keyboard ✔ MS Mouse ✔ 3-Year Limited Warranty ✔ 24/7 Toll-Free Dedicated Server Hardware Support

QX6400

Intel® Pentium® III Xeon™ Processor 500MHz
Quad Processor Upgradeable
256MB ECC EDO DRAM (4GB Max)
Three 9GB 10,000rpm Ultra2 SCSI Hot Swap Drives
Dual Channel Ultra2 SCSI Controller
AMI MegaRAID466WS Ultra2 RAID, 16MB
Dual Peer PCI Buses; 7 Slots
2+1 400w Redundant Power Supplies;
6 Hot-Swap Drive Bays; Redundant Fans
Intel EtherExpress Pro 100 Ethernet Adapter
Emergency Management Port
Chassis-Intrusion Switch; Drive Bay Lock

$7499

Business lease:$253/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08q21

QX6200

Intel® Pentium® III Xeon™ Processor 550MHz
Dual Processor Upgradeable
128MB ECC SDRAM (2GB Max)
9GB Ultra2 SCSI Hot-Swap Hard Drive
Dual Channel Ultra2 SCSI Controller
Dual Peer PCI Buses; 7 Slots
2+1 400w Redundant Power Supplies;
6 Hot-Swap Drive Bays; 6 Fans
Intel EtherExpress Pro 100 Ethernet Adapter
Emergency Management Port
Chassis-Intrusion Switch; Drive Bay Lock
Upgrade to Rack-mount kit, add $99

$4099

Business lease:$140/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08q25

QX5000

Intel® Pentium® III Processor 500MHz
Dual Processor Upgradeable
128MB ECC SDRAM (2GB Max)
9GB Ultra2 SCSI Hot-Swap Hard Drive
Dual Channel Ultra2 SCSI Controller
Dual Peer PCI Buses; 7 Slots
5 Hot-Swap Drive Bays; 4 Fans
Intel EtherExpress Pro 100 Ethernet Adapter
Emergency Management Port
Chassis-Intrusion Switch; Drive Bay Lock
Optional AMI MegaRAID 466WS, add $399
Windows NT Server 4.0, 10-Client Access, add $799

$2499

Business lease:$90/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08q11

QX3000

Intel® Pentium® III Processor 450MHz
Intel 440BX Chipset
64MB ECC SDRAM (768MB Max)
4.5GB Ultra-Wide SCSI Hard Drive
Integrated Ultra-Wide SCSI Controller
3PCI Slots, 1 ISA Slot, 1 Shared PCI/ISA
Mid Tower Server Case: 4 Internal 3.5" Bays,
4 External 5.25" Bays
Intel EtherExpress Pro 100 Ethernet Adapter
Emergency Management Port
Upgrade to 9GB Ultra-Wide SCSI Hard Drive, $199
Optional APC SmartUPS 700VA, add $349

$1399

Business lease:$50/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08q02

QUANTEX BUSINESS DESKTOPS

Common Features: ✔ 3.5" 1.44MB Floppy Drive ✔ 40x Max Variable Speed CD-ROM Drive ✔ Quantex highly-expandable ATX Mid-Tower Case ✔ 104-Key Keyboard ✔ MS Mouse ✔ WfM Compliant, DMI 2.0, ACPI, Cable Modem Ready ✔ 3-Year Limited Warranty ✔ 24/7 Toll-Free Technical Support

QP6/500 SB-4

Intel® Pentium® III Processor 500MHz
512KB Secondary Cache
128MB PC100 SDRAM Memory
13GB Ultra ATA Hard Drive
19" Monitor w/Diamondtron Flat CRT (18" vis)
Intel 752 AGP Business Graphics, 16MB
10/100 PCI Fast Ethernet Controller with
RJ-45, Wake On LAN Technology
MS Windows NT Workstation 4.0, Windows 2000 Ready
New Microsoft Office 2000 SBE
Intel LANDesk Client Manager

$1799

Business lease:$65/Mo., 36 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08b11

QP6/450 SB-3

Intel® Pentium® III Processor 450MHz
512KB Secondary Cache
64MB PC100 SDRAM Memory
10GB Ultra ATA Hard Drive
17" Digital Monitor (15.8" vis)
Intel 752 AGP Business Graphics, 16MB
10/100 PCI Fast Ethernet Controller with
RJ-45, Wake On LAN Technology
MS Windows NT Workstation 4.0, Windows 2000 Ready
New Microsoft Office 2000 SBE
Intel LANDesk Client Manager

$1299

Business lease:$64/Mo., 24 Mos. $0 Money Down

Q-QUOTE NUMBER: csa08b08

QP6/466 SB-2c

Intel® Celeron™ Processor 466MHz
128KB Secondary Cache
64MB SDRAM Memory
10GB Ultra ATA Hard Drive
17" Digital Monitor (15.8" vis)
Intel 810 Graphics Accelerator
Dynamic Wavetable Stereo Sound
10/100 PCI Fast Ethernet Controller with
RJ-45, Wake On LAN Technology
MS Windows 98 Second Edition
Intel LANDesk Client Manager

$999

Q-QUOTE NUMBER: csa08b19

QP6/400 SB-1c

Intel® Celeron™ Processor 400MHz
128KB Secondary Cache
64MB SDRAM Memory
6GB Ultra ATA Hard Drive
15" Digital Monitor (13.8" vis)
Intel 810 Graphics Accelerator
Dynamic Wavetable Stereo Sound
MS Windows 98 Second Edition
Intel LANDesk Client Manager
Optional 10/100 PCI Fast Ethernet Controller with
RJ-45, Wake On LAN Technology, add $39

$799

Q-QUOTE NUMBER: csa08b01

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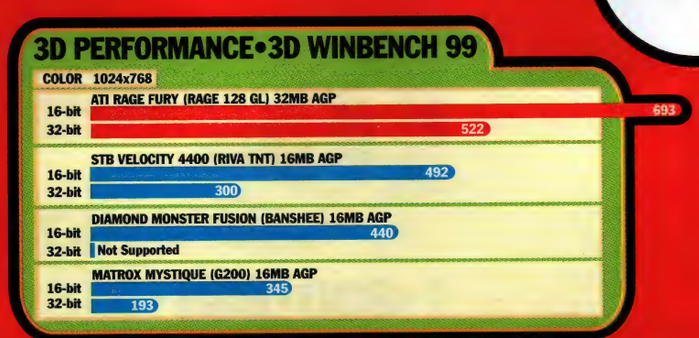
GRAPHICS BY ATI rage 128

- If you're a gamer, get powerful 128-bit graphics acceleration with RAGE FURY - packed with either 16MB or 32MB of memory and an optional TV-out feature
- Why play with only 64,000 colors when incredible 32-bit color rendering delivers 16.7 million colors without compromising 3D frame rate performance
- If you need the power of versatility – the best overall 3D, 2D and DVD accelerator is XPERT 128 with 32-bit true color graphics and 16MB of memory
- Every one of ATI's 128-bit graphics boards include hardware DVD video playback which saves the cost and time of installing a separate MPEG-2/DVD decoder card
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TRENDS

Gateway Sees Greener Pastures in Urban Stores

With its Country Stores going urban, the vendor is leading the pack in redefining direct.

Gateway's cows have come home—to the city. The direct vendor, which has just opened several Country Stores in New York City, is herding its product line into urban sites in a move that continues to fuse the direct and retail shopping models.

The not-so-direct company now counts 162 stores scattered across the United States, the vast majority of which occupy suburban sites. "But urban has always been on our radar screen," says John Mlynski, president of Gateway Country. "It's just been a matter of finding the right location."

These Country Stores essentially serve as computer petting zoos in which buyers can get hands-on experience with Web-connected systems and software before buying. Unlike traditional retail stores, Gateway keeps no inventory in stock—and has no plans to do so. All sales are build-to-order, just as if customers were ordering by Web or by phone.

The advantage? The hybrid sales model enables unsure buyers to try out a product before they reach for the credit card, eliminating one of the inherent limitations of the direct market. "We want the customer to be able to touch us in whatever method they want: by Web, phone, or Country Store," says Mlynski.



Gateway's first Manhattan store

"We're seeing 45 to 50 percent of our clients contact us in more than one method. It's a unique model that leverages our brand identity."

Better yet, it combines the best of both retail and direct models, says Matt Sargent, a senior industry analyst for **ZD Market Intelligence.** "It makes a lot of sense because it gives you the benefits of a direct model in that there's no inventory," he says. "You have just taken the Web site or catalog and turned it into a live model."

The other direct Goliath, **Dell Computer Corp.,** says it has no plans for a modified retail strategy. "We still believe that direct is the best bet for convenience and cost," says Janet Mountain, vice president and general manager of Dell's home systems division. "One of our overriding principles is to give the customer the most for the money, and real estate costs money."

It is the nose-bleed price of urban real estate that, until now, has kept Gateway's Country Stores in suburban settings. But Mlynski shrugs off the cost concerns raised by Dell. "We have built this whole model so that Country Stores are nondilutive to the company's revenue," he says. "And having these showcases also allows us to demonstrate where technology is going in areas like the Internet, business solutions, and training."

Compaq Computer Corp., which plays in all distribution channels, last year launched a hybrid retail-direct program called Built for You. The strategy enables shoppers to check out and custom-configure certain Presario systems in retail stores; the systems are then built to order and shipped directly to the buyer.

Compaq now has build-to-order kiosks in more than 9,000 retail stores, like Best Buy, Office Depot, and Staples. The company is in a multistore pilot test with CompUSA and will be in Sears later this year.

"These retail partners allow us to provide all the shopping choices that consumers want: in-store, via kiosk, on the Web, and via an 800 number," says Leslie Adams, Compaq's director of consumer marketing.

Acer America Corp. is taking a similar, although certainly more narrow, path. The company has traditionally focused on retail channels, but in recent months it has moved closer to a direct model by selling its Aspire line only direct or through one of two new retail stores, says Pyramyth Liu, director of sales for Acer's ShopAcer division. "A lot of customers really want to walk out with their new computer," he says of the company's two new retail stores in Temple, Texas, and San Jose, Calif., which do stock ready-built inventory.

But within the next month or so, Acer will enable shoppers to configure build-to-order desktop PCs from kiosks in its stores. Late in the year, it will add notebooks, which will be manufactured in Taiwan and shipped directly to the buyer.

Don't be surprised if other vendors experiment with cross-breeding their sales strategies. Gateway's hybrid model just might be the pedigree of the future. —*Rik Fairlie*

ACTIVE LINKS

cms.syr.edu/purchases/students/recommend.html ..... *Syracuse University recommended back-to-school systems, by discipline*

www.gateway.com/about/country/storelocator.shtml ..... *Country Store locator*

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NEWSBITS

AFFORDABLE APTIVAS

Bargain-hunters, fire up your browsers. **IBM** has just launched a new Aptiva series that starts at $799, monitor included. Big Blue's entry-level **Aptiva 175** is outfitted with a 380MHz AMD K6-2 processor, 64MB of RAM, a 4GB hard drive, a 40x CD-ROM drive, and a 15-inch monitor. At the opposite end of the line, the advanced **Aptiva 585** is rigged with a 500MHz Pentium III, 128MB of RAM, a 17GB hard drive, and DVD-ROM and CD-RW drives—all for $1,899 (monitor not included).



IBM Aptiva 175

A NET WIN

Looking for a back-to-school deal? **Compaq Computer Corp.** has launched a **Presario** that's priced at a tempting $599 (without monitor) and has started its own low-cost ISP service. The bare-bones **5300** employs a 366MHz Cyrix M II processor, 64MB of RAM, a 4.3GB hard drive, and a CD-ROM drive. For Internet access, Compaq includes 100 free hours of Compaq.Net, with monthly rates for unlimited access at only $11.99. It also offers 100 free hours of AOL. ▼

Buying A Better Business PC

Besides features, price, and performance, corporate-PC buyers must add manageability and maintenance to their shopping checklists.

BY STEPHEN W. PLAIN

If you're an IT manager, you know that choosing PCs to buy and deploy on desktops scattered throughout your organization is a daunting task, especially considering that you'll have to maintain and update those units. In other words, you're shopping for now and for the future. So although the usual factors—features, price, and performance—play a big part in the decision-making process, corporate buyers also must pay close attention to total cost of ownership (TCO).

TCO extends beyond the usual decision-making factors to the practical realities of managing a fleet of networked PCs among all types of users. To keep unit costs down, you'll have to make pragmatic judgments about which features you need in your desktops. For example, unless you work for Deutsche Grammophon, you're probably not as concerned about high-quality audio as you are with built-in network support. And unless your users employ AutoCAD or other graphics-intensive apps, there's likely little need for a zippy 3-D graphics accelerator. DVD? Not on your company's dime.

Fortunately, most PC vendors make the task of selecting a business model easier by engineering specific product lines for their corporate clientele. For this roundup, we requested Windows 95-based business desktop systems priced under $1,800. To participate, each vendor had to deliver at least a 400MHz processor, 64MB of RAM, 8GB of hard drive space, a 24x CD-ROM drive, 4MB of graphics RAM, a 17-inch monitor, a network interface, Desktop Management Interface (DMI) compliance, and asset manageability.

Five vendors answered our call: Compaq Computer Corp., Gateway, Micron Electronics, NEC Computer Systems Division, and Toshiba America Information Systems. All opted for Intel Corp. processors—still the overwhelming choice of the business world—using 400MHz Pentium II, 450MHz Pentium II, or 450MHz Pentium III chips.

FACT FILE

Category Tested	Corporate PCs
Price Range	$1,449 to $1,749
Minimum Configuration	400MHz processor, 64MB RAM, 8GB hard drive, 24x CD-ROM drive, 4MB graphics RAM, 17-inch monitor, network interface, Desktop Management Interface (DMI) compliance, and asset manageability
Companies Included	Compaq Computer Corp., Gateway, Micron Electronics, NEC Computer Systems Division, and Toshiba America Information Systems

These units also came to us in both 64MB and 128MB RAM configurations. Most vendors chose 5,400-rpm 8.4GB hard drives—with the notable exception of Micron, which sent a system with a 7,200-rpm 18GB IBM Deskstar.

Integration of the network interface, video, and audio is a common method of keeping the prices of corporate PCs within budget. Again, only Micron opted for a more advanced subsystem, decking out its ClientPro with a high-performance Diamond Viper V550 card. The other PCs reviewed here use an integrated ATI Rage Pro Turbo solution. Micron also eschewed an integrated network interface.

When settling on a desktop platform, you'll often have to choose between form and function. Some of these systems are housed in low-profile cases designed to fit into even the most cramped cubicle. This type of chassis often significantly limits expansion possibilities—not to mention the all-too-often overlooked issue of serviceability.

Before deciding on the machines you'll have to service, carefully consider access to the innards. Keep in mind that a technician should be able to quickly disassemble and reassemble the system without tools, and that this process shouldn't require a lot of workspace. Also remember that the physical design should make efficient use of field-


Ansel Adams
MICRON
CLIENTPRO

replaceable parts such as hard drives.

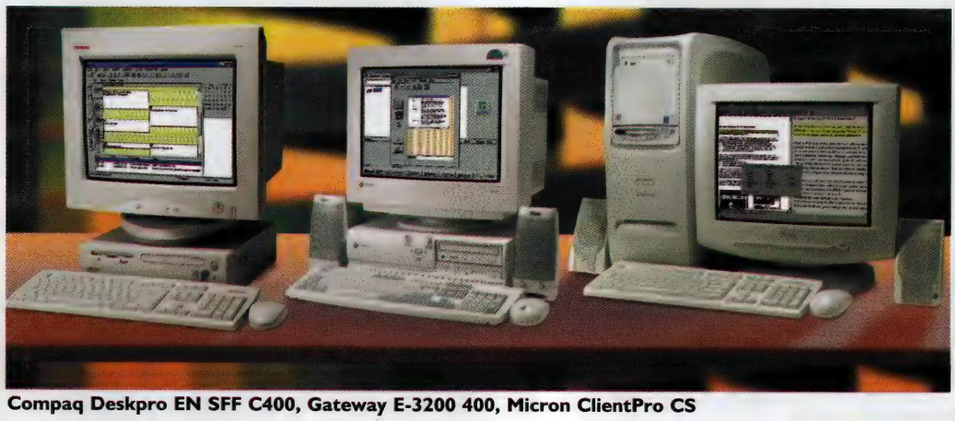
Corporate PCs often use riser cards to aid in serviceability and keep a low vertical profile. The motherboard, the expansion cards, and the power connections typically connect directly to the riser board, enabling a technician to remove the motherboard quickly, without touching the cards and connections.

Another key component to the corporate network is asset and resource management. All the units reviewed here comply with DMI 2.0. This standard lets client and server utility applications query a machine's hardware components, detect errors, and provide remote troubleshooting.

Some companies, such as Compaq and NEC, go beyond DMI 2.0 by adding proprietary extensions. This type of management framework can be a powerful tool for network administrators and IS personnel if it is implemented carefully and with an eye toward compatibility. Compaq's implementation, for instance, includes tools for deploying BIOS changes and driver updates, and even the capability to lock a particular unit's cover through a software command.

DMI and proprietary-event standards can work in conjunction with reliability standards such as Self-Monitoring, Analysis, and Reporting Technology (SMART) to detect—and even predict—component failures and notify a system administrator. (See the sidebar "Drive SMART.") This type of capability can help keep service costs down and user morale up.

Most of these offerings rely on Intel's LANDesk Client Manager to keep track of a PC's configuration and health. (See the sidebar "Snoopy Software.") This industry-standard approach integrates well with most third-party server-based management packages.



Compaq Deskpro EN SFF C400, Gateway E-3200 400, Micron ClientPro CS

In the end, TCO is totally about foresight. When selecting PCs for your organization, envision all the practical factors of computing in the office. The models reviewed below all have their relative strengths and weaknesses, and in some cases, you may want to further investigate the vendors' other models in the product line that may offer a different form factor and features.

Remember that no matter how inviting your corporate campus, business computing will probably never be a walk in the park. But picking the right desktop units can certainly make your work life a lot easier, and one of these units can point you in the right direction.

COMPAQ DESKPRO EN SFF C400

Compaq has a history of leading the pack in manageability, having implemented many of today's popular features before DMI was introduced. Today, this PC vendor is delivering systems that use both DMI 2.0-compatible and proprietary technologies, resulting in impressive management and maintenance capabilities.

The $1,749 Deskpro EN SFF C400 is a 400MHz Pentium II-based system housed in the company's small-form-factor case. This space-conscious box offers tool-free access, but lacks external drive bays. The Deskpro line is also available in standard desktop and minitower flavors.

To remove the cover, you simply press two tabs and slide it off—that is, if the computer's Smart Cover Lock feature is turned off in the BIOS. This feature lets administrators lock the case locally or remotely.

Inside, all the drives flip up and can be easily removed. Similarly, the power supply and expansion back plane pop off the motherboard, which itself can then be slid out the back of the chassis. The system can be disassembled in seconds, making servicing a snap.

Compaq's Intelligent Manageability handles everything from network configuration boots to asset tracking, fault notification, and software updates. The system comes with Compaq's Insight Personal Edition, which lets you test components and gather system information, and Intel's DMI Explorer.

Compaq also makes good use of its Web site for upgrades. An administrator can download a free System Software Manager (SSM) utility, which will analyze a system and automatically upgrade its BIOS and drivers. This program also speeds initial software installation, thanks to its ability to quickly configure plain-vanilla Windows images. By the time you read this, a new program called Insight Manager LC will be available from Compaq's site. This program will work with both Compaq and DMI-compliant systems to help administrators push updates transparently to any machine on the network.

The Deskpro most closely paced the Gateway and NEC systems in performance, while the Micron and Toshiba units, which sport faster processors, raced to the top tier. This unit's drive capacity and performance were average for this group.

The Deskpro's ATI Rage Pro Turbo chip, ESS AudioDrive sound processor, and Intel 82558 Fast Ethernet adapter are all integrated onto the system board. The package we tested included the company's S700 monitor, which has a viewable screen size of 16 inches. It offers no external stereo speakers.

The Deskpro is backed with a standard warranty of three years on parts, one year on labor, and one year onsite; however, you can extend the onsite coverage to three years for only $79.

The Deskpro delivers useful hardware and software-management features—but at a premium. To meet our $1,800 price cap, Compaq had to go with a less robust configuration, including 64MB of RAM and only an internal speaker for sound. But if system management and serviceability are your chief concerns, this Deskpro is the state of the art.

GATEWAY E-3200 400

Gateway's E-3200 400 is a 400MHz Pentium II low-profile desktop that offers solid components at a bargain cost of $1,449. Better yet, its design lends itself to simple serviceability in the corporate environment.

Like the Compaq, this unit opens and disassembles easily. Gaining access to its innards involves loosening a single thumbscrew in the rear, releasing two side tabs, and tilting the cover forward. In addition to the floppy and CD-ROM drives, this case provides an external 3.5-inch drive bay, but no 5.25-inch bay. The installed

COMPUTER SHOPPER Best Buy August 1999

The **Micron ClientPro CS** wins our Best Buy award for smaller businesses that need basic management features and high-end performance. The ClientPro is the only unit to come with a 450MHz Pentium III processor, an 18GB hard drive, and a 16MB Diamond Viper V550 graphics card. For $1,749 direct, the ClientPro will also appeal to a small business on a tight budget.

NOTEWORTHY

With its substantial manageability and serviceability features, the **Compaq Deskpro EN SFF C400** is a good choice for large enterprises. Its software allows managers to remotely monitor and react to a comprehensive list of needs, and its case can be disassembled in seconds. Its $1,749 price includes the components and performance needed for most applications.

At $1,449 direct, the **Gateway E-3200 400** is the least expensive unit in the roundup. Offering solid components along with its standard management features, it would be a welcome addition to any company network.

drives can be removed without tools once you've snapped off the front panel. The hard drive is mounted atop a small power supply and flips up for quick removal.

The E-3200 uses a riser card with two PCI slots and one PCI/ISA slot, an integrated AGP slot on the motherboard, an integrated 3Com Fast EtherLink XL 10/100 chip, and connections for power and drives. The motherboard slides into a large connector at the bottom of the riser card. Because the riser handles the wiring, the motherboard can slide easily out the left side of the unit once you drop the side panel with two quick-release tabs. This uncluttered layout can make life much easier for IS personnel.

The unit's 8.4GB Quantum Fireball CR 8.4 AT hard drive relies on the manufacturer's Shock Protection System to help prevent "head-flap" damage during transportation and installation. The PC comes with a system-restore CD with drivers and a CD version of Microsoft Virtual Machine, a Java implementation tool.

The Gateway motherboard has an integrated Crystal PnP Audio chip, and the system ships with a pair of Altec Lansing GCS100 speakers, which achieve a good balance between space and sound quality. For video, this PC joins the pack with an integrated ATI Rage Pro Turbo chip and a sharp 17-inch Gateway EV700 monitor.

The E-3200 held its own when compared with the other 400MHz Pentium II-based systems on the performance tests, earning a 17.8 Business Winstone 99 score.

SNOOPING SOFTWARE

Most corporate PCs ship with a preinstalled version of Intel Corp.'s LANDesk Client Manager. This package handles the truly tricky part of desktop manageability: It gathers and supplies information to an enterprise-management package or administrator.

LANDesk Client Manager is decked out in an intuitive interface. The software lets local and remote users inventory a system's configuration and monitor its status. The PC Health feature queries several crucial components and typically returns information such as predicted hard drive failures, memory-parity errors, chassis-intrusion events, actual power-supply voltages, temperatures, and fan and boot failures. A Desktop Management Interface (DMI) Explorer section lets you view individual DMI attributes and groups, as well as add new DMI-compatible components to your machine.

The program maintains both notification and remote-access logs, and uses the industry-standard Simple Network Management Protocol (SNMP) to make the PC available to administrators across the network. If you're looking to provide DMI-compatible management of your corporate PCs, LANDesk Client Manager is the key. ▼

Gateway includes a copy of Intel LANDesk Client Manager 3.31 for industry-standard system management and tops off its support with a solid three-year parts, labor, and onsite-coverage warranty.

Fine components, an eminently serviceable design, a good warranty, and a low cost all add up to make the E-3200 a wise package.

FEATURE COMPARISON

	Compaq Deskpro EN SFF C400	Gateway E-3200 400	Micron ClientPro CS (Best Buy)	NEC PowerMate ES 5200	Toshiba Equium 7100D
DIRECT PRICE AS TESTED	$1,749	$1,449	$1,749	$1,488	$1,698
CONFIGURATION					
Processor	400MHz Pentium II	400MHz Pentium II	450MHz Pentium III	400MHz Pentium II	450MHz Pentium II
SDRAM Installed/Max.*	64MB/256MB	64MB/384MB	128MB/384MB	128MB/512MB	128MB/512MB
Pipeline-Burst L2 Cache Installed/Max.	512K/512K	512K/512K	512K/512K	512K/512K	512K/512K
Motherboard*	Compaq 400343-XX3	Intel Maverick	Intel Seattle II	Micro-Star MS-6131	Toshiba MOOO17490
Chip Set	Intel 440BX AGPset	Intel 440BX AGPset	Intel 440BX AGPset	Intel 440BX AGPset	Intel 440BX AGPset
Available RAM Slots	One DIMM	Two DIMM	Two DIMM	One DIMM	One DIMM
Available Expansion Slots	One PCI, one PCI/ISA	Two PCI, one PCI/ISA, one AGP	Two PCI, one ISA, one PCI/ISA	Three PCI, one ISA, one PCI/ISA	Three PCI, one PCI/ISA
I/O Ports	One serial, one parallel, two USB, one 10BaseT	Two serial, one parallel, two USB, one 10BaseT	Two serial, one parallel, one game, two USB, one 10BaseT	Two serial, one parallel, one USB, one 10BaseT	One serial, one parallel, two USB, one 10BaseT
Hard Drive Rated Size/Model/ Rotational Speed (rpm)	8.4GB/Maxtor Diamond-Max 4320/5,400	8.4GB/Quantum Fireball CR 8.4 AT/5,400	18GB/IBM Deskstar 22GXP/7,200	8.45GB/Maxtor Diamond-Max 4320/5,400	8.4GB/Western Digital Caviar 2840/5,400
Max. External Transfer Rates (MB/sec)*/Mode	33.3/Ultra DMA	66.6/Ultra ATA/66	66.6/Ultra ATA/66	33.3/Ultra DMA	66.6/Ultra ATA/66
Monitor	Compaq S700	Gateway EV700	Micron 700VX	NEC VistaScan 7000	Toshiba TekBright 700P
Rated*/Measured Screen Size (Inches)	17/16	17/16	17/15.75	17/16	17/16
Dot Pitch (mm)*	0.24	0.26	0.28	0.27	0.26
Graphics Card	Integrated ATI Rage Pro Turbo	Integrated ATI Rage Pro Turbo	Diamond Viper V550	Integrated ATI Rage Pro Turbo	Integrated ATI Rage Pro Turbo
Graphics Processor	ATI Rage Pro Turbo	ATI Rage Pro Turbo	nVidia Riva TNT	ATI Rage Pro Turbo	ATI Rage Pro Turbo
Installed RAM	8MB	4MB	16MB	4MB	6MB
CD-ROM Drive Model/Speed	Compaq Slimline IDE CD-ROM/24x	Mitsumi CRMC-FX4010M/ 32x	NEC CDR-3000A/40x	Liteon LTN301/40x	Liteon LTN302/32x
Sound Processor	Integrated ESS AudioDrive ES1869F	Integrated Crystal/Cirrus Logic CS4235	Integrated Yamaha YMF740C-V	Integrated Yamaha YMF740C-V	Integrated Crystal/Cirrus Logic CS4235
FM*/Wavetable*	Yes/no	Yes/yes	Yes/yes	Yes/yes	Yes/yes
Speakers	None	Altec Lansing GCS100	Advent AV009	None	Integrated into monitor
Networking Interface	Integrated Intel 82558 Fast Ethernet	Integrated 3Com Fast EtherLink XL 10/100	Intel EtherExpress Pro/ 100+ (PCI)	Integrated Intel 82558 Fast Ethernet	Integrated 3Com Fast EtherLink XL 10/100
SOFTWARE INCLUDED					
Applications Included With System	Insight Personal Edition, Intelligent Manageability Agent, Diagnostics for Windows	Intel LANDesk Client Manager 3.31, McAfee VirusScan 4.01	Intel LANDesk Client Manager 3.3, Micron University Tutorials Samples, Norton AntiVirus 5.0	Intel LANDesk Client Manager 3.32, NEC Configuration Change Notification	Intel LANDesk Client Manager 3.32
SERVICE AND SUPPORT*					
Money-Back Guarantee/Restocking Fee	30 days/none	30 days/none	30 days/none	30 days/15 percent	No/NA
Standard Warranty	Three years parts, one year labor, one year onsite	Three years parts, labor, and onsite	Three years parts (five on CPU and RAM), three years labor, one year onsite	Three years parts and labor	Three years parts, one year labor, one year onsite
Extended/Upgraded Warranties	$79 extends onsite to three years	None	$99 extends onsite to three years	$99 for three years of onsite	$79 extends next-business-day onsite to three years; $149 extends same-day onsite to three years
Onsite Providers	Varies	TSS	Unisys	Unisys	Toshiba On.Call Global Network
Toll-Free Telephone Support	Yes	Yes	Yes	Yes	Yes
Live Tech-Support Hours	24 hours daily	24 hours daily	24 hours daily	24 hours daily	24 hours daily
Who Pays for Shipping Under Warranty	Vendor pays one way	Vendor pays both ways	Vendor pays one way	Vendor pays both ways	Vendor pays both ways for first year, one way afterward
Online Tech Support	AOL, CompuServe, Prodigy, Web	AOL, CompuServe	CompuServe	AOL, BBS, CompuServe, MSN, Prodigy	BBS, CompuServe, Web

* = According to vendor or manufacturer NA = Not applicable

FOR AN EXPANDED LIST OF FEATURES, VISIT OUR WEB SITE AT *COMPUTERSHOPPER.COM*

COMPUTER SHOPPER BENCHMARKS

	Compaq Deskpro EN SFF C400	Gateway E-3200 400	Micron ClientPro CS	NEC PowerMate ES 5200	Toshiba Equium 7100D	*Benchmark System:* Gateway Performance 500
PROCESSOR TYPE	400MHz Pentium II	400MHz Pentium II	450MHz Pentium III	400MHz Pentium II	450MHz Pentium II	500MHz Pentium III
SYSTEM MEMORY	64MB	64MB	128MB	128MB	128MB	128MB
APPLICATION PERFORMANCE Business Winstone 99	17.4	17.8	20.3	17.4	19.2	24.6
PROCESSOR SUBSYSTEM CPUmark 99*	30.5	31.3	34.4	30.6	33.7	38.5
GRAPHICS SUBSYSTEM Business Graphics WinMark 99 16.8 Million Colors @ 1,024x768	93	81	120	78	98	151
DISK SUBSYSTEM Business Disk WinMark 99	2,850	2,720	3,390	3,060	2,520	4,580
MULTIMEDIA PERFORMANCE CD-ROM WinMark 99	1,590	1,590	1,460	1,540	1,390	1,440
Scaled Video Playback (% Frames Dropped, Lower Is Better)	0	0	71	0	0	0

* = CPUmark 99 scores are not comparable with CPUmark32 scores.

HIGHER SCORES ARE BETTER, EXCEPT WHERE NOTED

HOW WE TEST

For information on how we test desktop systems, go to *computershopper.com/edit/cshopper*.

MICRON CLIENTPRO CS

Micron's $1,749 ClientPro CS is a renegade powerhouse among this batch of buttoned-down corporate PCs. Its 450MHz Pentium III processor and 128MB of RAM give it a performance boost right out of the gate. But the ClientPro goes much farther with its broad expandability and top-notch hard drive and graphics card.

Although many office installations require low-profile desktops suitable for cubicle dwellers, some users require more substantial machines with room to grow. The ClientPro CS is such a PC. It comes in an extra-sturdy tower case that houses one external 3.5-inch and two external 5.25-inch drive bays, in addition to the floppy and CD-ROM drives. Inside the box, the unit can accept three other 3.5-inch internal drives.

The ClientPro is built on a conventional Intel Seattle II motherboard with PCI, ISA, and AGP slots, offering the most expansion capabilities of any system in this roundup. Its case is designed for quick servicing and is similar to that of the Compaq, although it forgoes a quick-release mechanism for mounted drives. The left-side cover comes off without tools. The layout is basic, which is good for expansion purposes, but does not pay close attention to easy access and serviceability. However, a swing-out plastic bracket helps both to channel air and to hold expansion cards fast. The spacious case is also generously cooled with dual 3-inch fans.

Besides its Pentium III processor, this system's highlights include its ample 18GB IBM Deskstar 22GXP hard drive. This 7,200-rpm model is state-of-the-art with its giant magnetoresistive (GMR) heads, speedy Ultra ATA/66 interface, and SMART 3 background-sector-reassignment technology. The hard disk is a driving force behind the ClientPro's outstanding performance: Its 3,390 Business Disk WinMark 99 score is 9.7 percent faster than that of the NEC system, which placed second in the roundup.

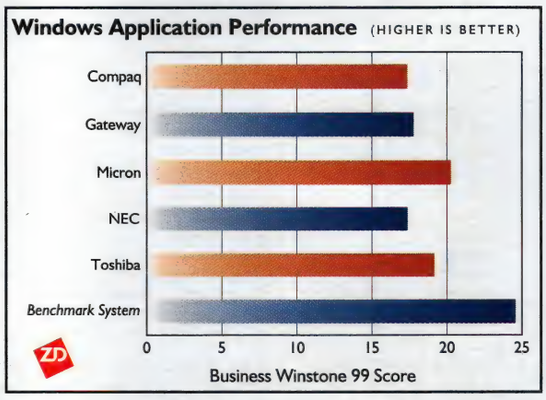
The Micron's overall performance was also stellar, with a group-leading 20.3 Business Winstone 99 score. Unlike the other units, the ClientPro harnesses the power of an AGP-based Diamond Viper V550 card outfitted with the blisteringly fast nVidia Riva TNT chip. This helped the ClientPro speed to a Business Graphics WinMark score that was 22 percent faster than the average of the group. In our video playback tests, this unit dropped 71 percent of the frames played, an alarmingly high number. Micron assures us that the graphics drivers will be updated by the time you read this, which should alleviate the problem.

The ClientPro CS uses a PCI-based Intel EtherExpress Pro/100+ network adapter and comes with Intel LANDesk Client Manager 3.3. Like many PC vendors, Micron is opting to stay consistent with management standards and leave the details to other companies that specialize in network-management technologies.

A Micron 700VX monitor with USB and standard VGA interfaces is included. The motherboard's integrated Yamaha YMF740C-V synthesizer and a pair of wedge-shaped Advent AV009 speakers produce decent sound in a compact space. The package comes with Norton AntiVirus 5.0 and a one-year subscription to Micron University, the company's online technology tutorial program.

Micron backs this beast with five years of CPU/RAM coverage, three years on other parts and labor, and a single year of onsite service. Two additional years of onsite coverage are offered for a modest $99.

Although the ClientPro lacks the snap-together design of some of the competition, it does deliver awesome performance and components at an affordable price. It's a system worthy of the CEO, yet priced appropriately for those lower down the corporate ladder.



NEC POWERMATE ES 5200

At first glance, the NEC PowerMate ES 5200 resembles an ordinary minitower. Look under its hood, however, and you'll see that it implements some of the assembly and detection mechanisms of a corporate PC. But though this $1,488 400MHz Pentium II system is priced aggressively and NEC offers some good manageability extensions, its physical layout and uneven performance detract from its overall value.

Removing one screw will release the left-side panel, and pressing a couple of tabs frees the front cover of the chassis. Instead of housing a motherboard with its own expansion slots, the unit uses a motherboard plugged into a riser board that actually accepts cards upside-down.

As with the Gateway, the riser board in the PowerMate handles power and drive connections. Though this lets the motherboard slide out of the case without removal of connectors, this unusual minitower chassis requires a bit of workspace to disassemble. To take out the motherboard, you must lay the system on its right side, remove a screw, and fold down the bottom panel of the case. This pulls the motherboard out of the riser, and then you can slide it out.

The riser-card configuration limits the number of the drive bays in the case. In addition to the floppy drive and the CD-ROM drive, two external 5.25-inch bays are available. The hard drive mounts sideways atop the power supply in the rear and can be removed quickly via a release tab; the hard drive bracket can accept a second drive. The board uses an integrated ATI Rage Pro Turbo graphics solution, an Intel 82558 Fast Ethernet interface, and a Yamaha YMF740C-V sound synthesizer. Because these components are integrated into the motherboard, all the unit's expansion slots are available.

The NEC VistaScan 7000 monitor provides 16 inches of screen space, integrated sound, and a USB port in the base. The monitor's cable includes plugs for line out and microphone; headphone and external microphone jacks are located on the left side of the screen. The test system lacked the Harman Kardon speakers that mount to the monitor, which is understandable considering

that corporate users don't always need sound in a business setting.

Despite having 128MB of RAM, the PowerMate failed to deliver impressive performance on most tests. Even though the NEC had twice as much memory, it only matched the Compaq's modest 17.4 Business Winstone 99 result. Though its graphics performance was the lowest in the roundup, the PowerMate's DiamondMax hard drive brought home the second-highest Business Disk WinMark 99 score.

The PowerMate uses Intel LANDesk Client Manager 3.32, but the company also includes a set of its own management utilities that supply hardware support for LANDesk. NEC offers Cheyenne Backup to integrate with Client Manager to provide proactive hard drive backups, and NEC's WebTelligent server program lets an administrator manage network PCs via a Web browser. The NEC SNMP Agent program provides alerts, asset management, and more. Finally, the NEC Configuration Change Notification application monitors CPU, memory, and hard drive changes between boots.

NEC delivers three years of parts-and-labor coverage, and three years of onsite service is available for $99.

The PowerMate ES minitower covers the manageability bases and makes attempts at serviceability. But although it seems tempting at $1,488, its low price and manageability features don't make up for its spotty performance.

TOSHIBA EQUIUM 7100D

With second-best overall performance, the 450MHz Pentium II Toshiba Equium 7100D seems like a good choice—at least at first. But its cramped desktop case should immediately raise a red flag for those considering this $1,698 system.

This unique desktop disassembles easily, but its crowded internal layout may make the system a little toasty when used for long periods of time. The left-side cover wraps around the top of the system, where you'll find a quick-release sliding button. This left panel flips down and off the system, and the top panel slides off to the right.

Like many of the machines in this roundup, the motherboard slides into a riser card. A release lever makes removal and replacement smooth; however, the motherboard layout is problematic. Because the expansion slots on the riser card accept boards horizontally from the left and the Pentium II module is only about 4 inches away, you'll probably have to slide out the motherboard to install boards. Three PCI slots and one PCI/ISA slot offer good expandability, however.

Another concern is a hard drive mounting bracket that lays the drive directly above the power supply. The chassis cover fits snugly on top of the drive, which means the machine could run hot. And despite the obvious need for ventilation, the system lacks internal cooling fans. Releasing two tabs lets you slide the CD-ROM drive out of the front of the case, revealing the unit's only expansion bay, a 5.25-inch external version.

Like the Gateway, the Equium sports an integrated 3Com Fast EtherLink XL 10/100 network adapter and the Crystal PnP audio system. The Toshiba TekBright 700P monitor includes integrated speakers and microphone interfaces.

In overall performance, the Toshiba benefits from its 128MB of RAM, garnering a 19.2 Business Winstone 99 score that was topped only by the 450MHz Pentium III-powered Micron. This model's 8.4GB Western Digital hard drive brought in the lowest result in the group, however, with a score of 2,520 on the Business Disk WinMark 99 test. The integrated ATI Rage Pro Turbo fared better, with a second-place result of 98 on Business Graphics WinMark 99.

Toshiba relies on Intel's LANDesk Client Manager 3.32 to monitor and manage the PC, with no additional application software included. The Equium comes with a three-year parts, one-year labor, and one-year onsite warranty. Buyers have a choice of upgrading to a next-day or second-day onsite extension.

Although this machine's performance is strong, its engineering is weak. The design of its chassis could invite overheating and servicing headaches.

THE BALANCING GAME

Although hardware and software components have both evolved to address TCO concerns, picking PCs for the corporate setting is still largely a trade-off game. Balancing form factor and manageability against capacity and performance will likely be the focus of your decision.

We suggest you carefully evaluate the critical performance and expansion requirements of your company's organizational units, and settle on a wise mix of capabilities. ▼



NEC PowerMate ES 5200, Toshiba Equium 7100D

DRIVE SMART

If there's one component in your organization's PCs that is likely to go south—and often with catastrophic results—it's the hard drive. The vast majority of hard drive crashes are due to corrupted operating systems, viruses, or other unexplained software snafus. Fortunately, advances in managed-PC software can help you avoid hard drive failures.

Self-Monitoring, Analysis, and Reporting Technology (SMART) is a general fault-prediction tool that works with several different internal components of a PC. It's used primarily as a tool to safeguard hard drives, however. Among the systems in this roundup, only the Micron's IBM Deskstar drive uses SMART.

Although vendor implementations vary, the basic concept is the same: The hard drive internally monitors certain parameters, such as head height, spin-up time, seek errors, and reallocated sectors. When it detects suspicious readings, it sends an alert to the system's monitoring software. SMART alarms are recognized by diagnostic software such as Intel LANDesk Client Manager and produce predicted failure notifications, letting an administrator back up or replace a drive before disaster strikes.

All major drive manufacturers are integrating SMART into some of their models, and most are working to extend the specification. Maxtor, for example, is shipping SMART Phase II drives that deliver offline diagnostic capabilities that examine drives while they're idle. IBM's Drive Fitness Test (DFT) is a diagnostic utility that comprises both software and drive microcode to let end users sniff out hardware problems.

Today's hard drives are increasingly reliable, but making the most of new diagnostic technologies is a SMART solution. ▼



PRODUCT SUMMARY

PRODUCT	Compaq Deskpro EN SFF C400	Gateway E-3200 400	Micron ClientPro CS	NEC PowerMate ES 5200	Toshiba Equium 7100D
COMPANY	Compaq Computer Corp. Houston, TX 800-345-1518, 281-370-0670 www.compaq.com	Gateway N. Sioux City, SD 800-846-4208 www.gateway.com	Micron Electronics Nampa, ID 888-634-8799, 208-893-3343 www.micronpc.com	NEC Computer Systems Div. Mountain View, CA 888-863-2669 www.nec-computers.com	Toshiba America Information Systems Irvine, CA 800-867-4422, 949-583-3000 www.csd.toshiba.com
DIRECT PRICE	$1,749	$1,449	$1,749	$1,488	$1,698

ILLUSTRATION BY TIM WEBB

SECTION CONTINUES ON PAGE 158A

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DELL DIMENSION L400

Entering a New Dimension

Dell rewrites the rules for sub-$1,000 PCs with some assistance from Intel's new 810 core-logic chip set.

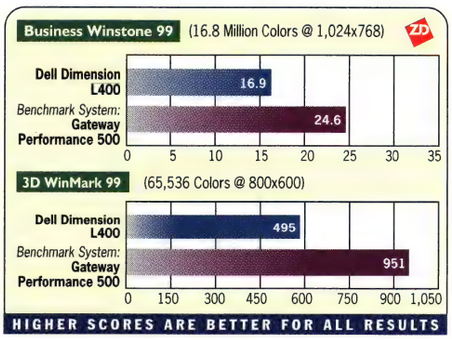
BY DANIEL A. BEGUN

With computers now found in more than 50 percent of American homes, the PC has truly gone mainstream. And since the entry-level cost for powerful desktop systems has fallen below the $1,000 mark, the financial barrier blocking the other half of America from booting up has been all but removed.

One of the latest sub-$1,000 system offerings is Dell Computer Corp.'s $999-direct Dimension L400. Though based on a 400MHz Celeron CPU, the L400's distinguishing feature is its use of the new Intel 810 chip set. Motherboard core-logic chip sets have traditionally served as memory and I/O controllers—acting in essence as the PC's data traffic cop. The 810 chip set also serves this function but additionally incorporates a 2-D/3-D graphics engine.

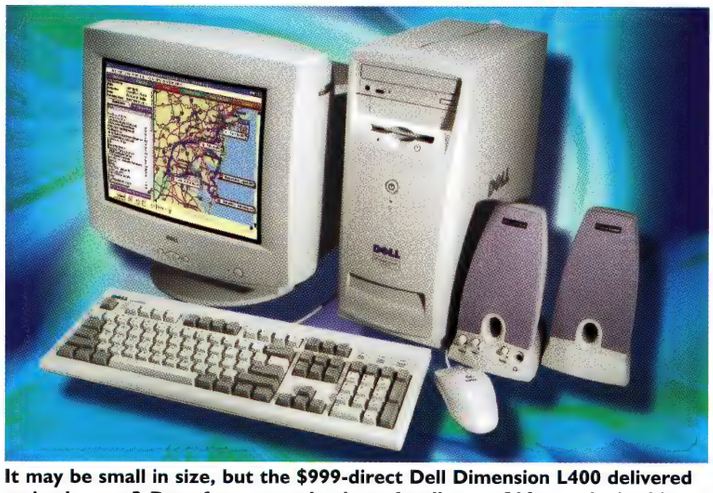
Basically, the 810 is a combination of a 440BX chip set and an Intel 752 graphics engine—but with a few important distinctions. Unlike the 440BX, the 810 fully supports the 66MB/sec burst transfer rate of the Ultra ATA/66 specification. Dell takes full advantage of this by including a 9.1GB Ultra ATA/66 Western Digital drive with the L400. Another benefit of the 810 is that the memory bus has been decoupled from the front-side bus (FSB). So while the L400's Celeron processor still demands a 66MHz FSB, the memory operates on a faster 100MHz bus.

This is of particular significance because the 810's graphics engine is designed to use system memory for 3-D graphics. The L400 uses a version of the 810 with a 4MB SDRAM shared frame buffer for 2-D and 3-D graphics. But many 3-D games tend to demand far more than that. The 810 supports AGP texturing and uses what Intel calls DirectAGP, which is the rough equivalent of AGP 2.3x.



The L400's Business Winstone 99 score of 16.9 is lower than average for this class of system, though it should be more than fast enough for typical word processing and Internet tasks. The L400's 3-D graphics performance, however, wowed us. Its score of 495 on the 3D WinMark 99 is closer to the type of performance we've seen from faster, more expensive systems. The system's performance in anecdotal game testing further convinced us that the L400 passes muster as a decent game machine.

Any budget system inevitably offers compromises, and the L400 is no exception. One significant trade-off is the lack of an AGP slot. Although the L400's 810 graphics engine may be fast enough for today's apps, the graphics subsystem will not be able to grow with you. Another limiting factor is that the system has only one empty 3.5-inch accessible drive bay. If you order the $79 optional Zip 100 or $250 Zip 250 drive, you'll have no available drive bays at all. Of the system's four PCI slots, one holds the V.90 data/fax/voice modem, and another houses the Creative Labs Sound Blaster Live Value sound card.



It may be small in size, but the $999-direct Dell Dimension L400 delivered major-league 3-D performance, thanks to Intel's new 810 core-logic chip set.

The Creative card is paired with a pair of Harman Kardon HK195 speakers. The combination provides impressive audio quality, which rivals that of some subwoofer-based speaker systems (although a three-piece Altec Lansing speaker system is available for $50 more). Also, our review system came with a 40x CD-ROM drive; upgrading to a 6x DVD-ROM drive will cost another $49.

The system's 15-inch Dell 800F monitor supports a maximum setting of 24-bit color at a resolution of 1,280x1,024 and a 60Hz refresh rate—although given the display's size, you probably would not want to exceed 1,024x768.

Dell designed the L400's 15.3x6.7x12.5-inch (HWD) microtower case for improved ease of use, and that is just what you get. Without tools, you can open the case, remove the front bezel, and slide out the drives. The CPU resides in a Socket-370 receptacle, and a single DIMM sits in one of the two memory slots. The back of the system also includes a chassis lock and a Kensington lock slot.

Although the review system arrived with Windows 98 installed, Dell expects the L400 to ship with Windows 98 Second Edition. The L400 is also available with Windows NT 4.0 at no additional cost. You can also choose to outfit your system with either Microsoft Works Suite 99 or Office 2000 Small Business Edition. Other software includes BVRP PhoneTools, McAfee VirusScan, and Dell's SnapRestore backup utility.

Dell provides around-the-clock phone support and backs the L400 with its standard three-year parts, one-year onsite warranty. Dell also offers extensive online support, and ships the system with a full set of manuals and excellent electronic documentation.

Although it offers limited upgrade options, the Dell Dimension L400 represents excellent value for a sub-$1,000 system. This PC should meet the needs of most first-time computer buyers and even those looking for a second system for the home. ▼

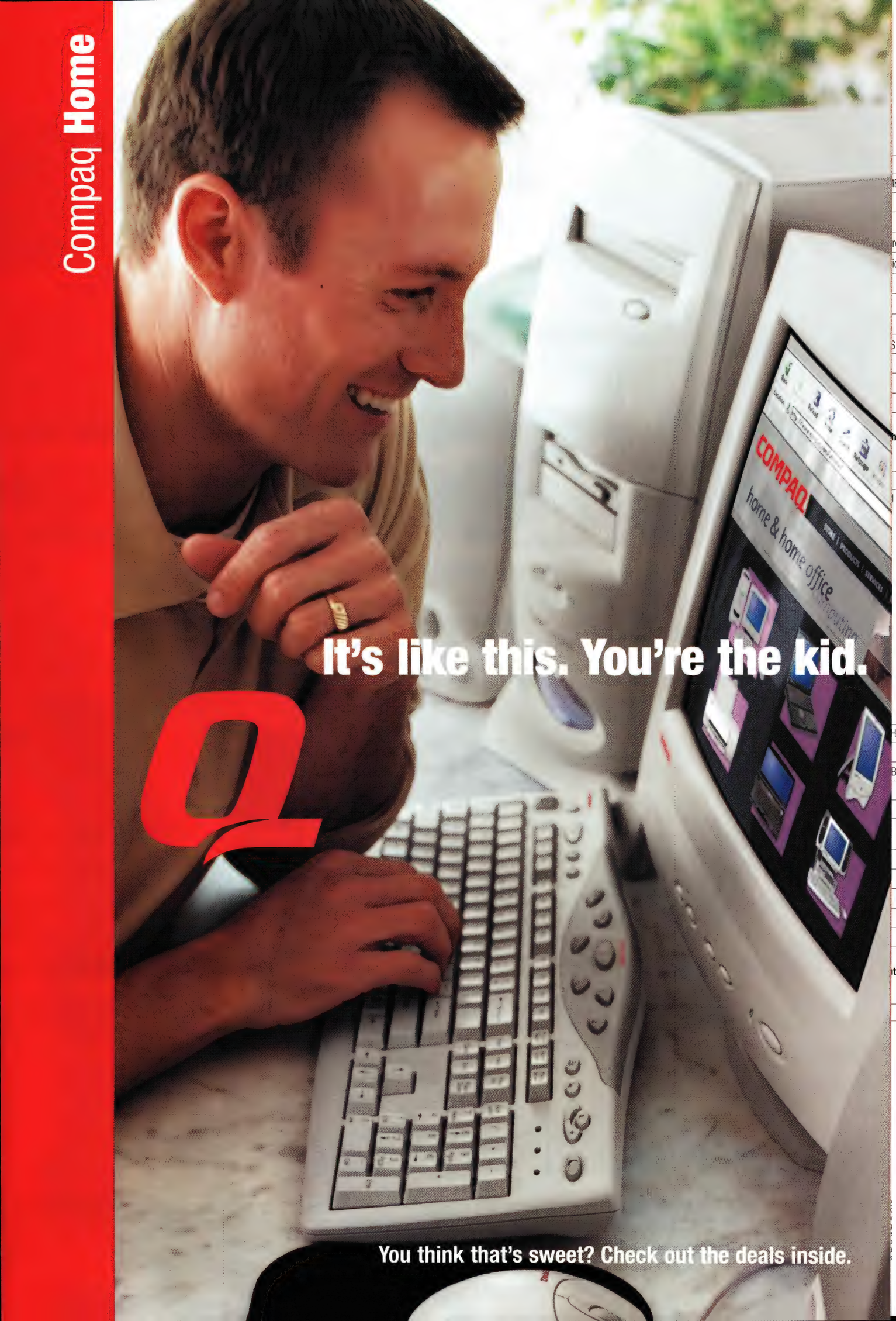
SYSTEM .....Dell Dimension L400
COMPANY .....Dell Computer Corp. Round Rock, TX; 800-388-8542, 512-338-4400 www.dell.com
AS TESTED .....400MHz Intel Celeron; 64MB 100MHz SDRAM; 128K L2 cache; Intel Cayman motherboard with Intel 810 chip set and integrated graphics accelerator with 4MB SDRAM; 9.1GB Western Digital Expert AC29100 Ultra ATA/66 hard drive; 40x NEC CDR-3000A CD-ROM drive; 15-inch Dell 800F monitor; Creative Labs Sound Blaster Live Value sound card; Harman Kardon HK195 stereo speakers; 3Com U.S. Robotics V.90 PCI Winmodem; Logitech MouseMan mouse; Windows 98; Microsoft Works Suite 99; additional software
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SUITABILITY .....Value seekers should find the L400 an ideal first or second PC.
DIRECT PRICE $999

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COMPUTER SHOPPER Best Buy August 1999

The $999 **Dell Dimension L400** distinguishes itself from the pack by incorporating Intel's new 810 core-logic chip set, a 9.1GB Ultra ATA/66 hard drive, and excellent service and support.

SECTION CONTINUES ON PAGE 160


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BY BILL O'BRIEN

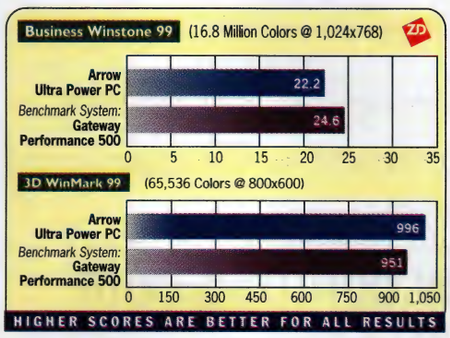
SYSTEM .....Arrow Ultra Power PC
COMPANY .....Arrow Corp.
Warrensville Heights, OH; 800-796-9290, 216-663-6598
www.arrowpc.com
AS TESTED .....Intel 450MHz Pentium III processor; 512K L2 cache; 128MB SDRAM; Asus P2B-F motherboard with Intel 440BX chip set and Award BIOS; 16.8GB IBM Deskstar hard drive; 3dfx Voodoo3 3000 AGP graphics card with 16MB SDRAM; 4.8x Toshiba SD-M1202 DVD-ROM drive; 19-inch KDS VS-19sn monitor; Creative Labs Sound Blaster Live Value sound card; GNT-5000A satellite-subwoofer speaker system; 3Com V.90 PCI modem; Iomega 100MB Zip drive; Windows 98; Microsoft Works Suite 99; additional software
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Not everyone needs or wants the cutting edge of technology for their SOHO computing. In fact, you can save several hundred dollars by steering clear of the high end of high tech. Although that was once a mandate for the mundane, systems such as Arrow Corp.'s Ultra Power PC have done much to raise the bar. With its 450MHz Pentium III processor, 128MB of memory, a 16.8GB hard drive, DVD, and a 19-inch monitor, the Ultra Power makes for a great choice. Better yet, the price tag reads only $1,759 direct.

If you're worried about performance at the bottom end of the Pentium III ladder, rest easy: According to Business Winstone 99, the Ultra Power PC trails our 500MHz reference system by a mere 10 percent. In fact, its 22.2 score is only about 13.5 percent behind the results we've seen from 550MHz Pentium III systems.

Much of this is the result of the Ultra Power PC's outstanding graphics subsystem. Its 16MB AGP Voodoo3 3000 card outscored our reference machine 168 to 151 in Business Graphics WinMark 99 testing. Switch to 3-D graphics, and you'll find that the Ultra Power PC ranges from 5 to 15 percent better than the Riva TNT-based card in our reference system—and that's with 10 percent less processing power. The Ultra Power PC's Sound Blaster Live Value card and GNT-5000A satellite-subwoofer speaker system further augment the Voodoo3's excellent gaming ability.





The Ultra Power PC packages a 19-inch monitor, 128MB of RAM, DVD, a Zip drive, and a Voodoo3 3000 card, all for $1,759.

The important contribution made by the system's KDS VS-19sn monitor is tough to ignore as well. The monitor itself, a so-called short-neck model, is relatively compact and actually quite stylish to look at. It has an 18-inch viewing area and a 0.25mm dot-pitch display. Text is crisp, and graphics are brilliant. When you kick back with a DVD movie, courtesy of the 4.8x Toshiba SD-M1202 drive and Zoran's SoftDVD2 software, all that's needed is some popcorn.

Inside the 17x7.5x18-inch mid-tower case, you'll find an Asus P2B-F motherboard with an Intel 440BX chip set and Award BIOS. An available ISA slot and an open shared slot will let you migrate ISA cards from an older system. Two of the four PCI slots are occupied by the modem and sound card. But you can't exactly use both of the remaining slots: The heat sink on the Voodoo3 accelerator chip protrudes far enough from the face of the graphics card to make the adjacent PCI slot unusable. Three of the four DIMM sockets are vacant, and the system can be swelled to 1GB of memory.

Drive expansion is better than average, although Arrow has claimed most of the prime real estate. All three of the 3.5-inch bays, two accessible and one internal, are already filled. Three of four accessible 5.25-inch bays are vacant, but it's a long stretch from the bottom-most internal bay, where the hard drive is installed, to any of the available accessible bays. Installing a second hard drive means relocating the Zip drive, which would require an adapter kit for the 5.25-inch bay.

Arrow's customer support is a mixed bag. The quality is excellent—our sample call evoked an immediate response, and it was obvious the person with whom we spoke was knowledgeable about the system. The quantity of customer support is the issue. Toll-free call-in hours are limited to 9 a.m. until 7 p.m. (ET) on weekdays. Effectively, it's a business week. Five years ago, we would have considered that more than adequate. But the industry has since marched steadily toward 24/7 as the standard for service-and-support availability.

Likewise, Arrow's warranty falls short of those offered by companies such as Dell Computer Corp. and Gateway. Arrow offers a simple three-year parts and lifetime labor warranty. The length of the parts warranty is on target, but repairs are handled through phone diagnostics and parts shipping. You may, at Arrow's discretion, return the system for repair, but you'll be responsible for the shipping costs (estimated at $99 from New York to Ohio). Arrow will cover the return freight costs, and claims a 24-hour turnaround time on repairs. There are no extended warranty plans available.

Warranties aside, we have one minor caveat about any 450MHz Pentium III-based system. That is, it appears this flavor of the CPU may soon be reaching the end of its product cycle. Intel is likely to release a 600MHz version of the processor in September. And in the past, the chip maker has not continued to supply more than three speed variants in any of its processor families for any prolonged period of time. Of course, this is a concern only for those users looking to get the fastest possible PC performance.

That said, if you don't need the flexibility afforded by a round-the-clock service-and-support team and are reasonably confident in your own repair abilities, Arrow's Ultra Power PC will save you a few dollars off comparable systems from the competition—and get the job done just as well. ▼

SECTION CONTINUES ON PAGE 164

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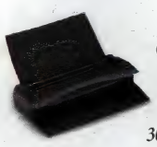
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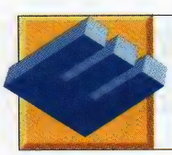
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GATEWAY PERFORMANCE 450

Make the Home PC Connection

This 450MHz Pentium III has all you need to build your own home network—except, of course, a second PC.

BY DANIEL A. BEGUN

Home networking is a hot topic these days. And why not? It's easy to understand the appeal of simply and inexpensively networking two or more PCs in the home for file, printer, and Internet sharing, and for playing multiplayer games. Now, Gateway has taken the concept to its next logical step with its home-network-ready Performance 450 system, which sells for $1,848 direct.

Powering the Performance is a 450MHz Pentium III processor and 64MB of SDRAM. The Performance also includes a 9.1GB Ultra ATA/66 hard drive and controller, and a 4.8x DVD-ROM drive. Graphics come courtesy of a 17-inch monitor and a Voodoo Banshee-based graphics board with 16MB of SDRAM; the audio subsystem consists of an integrated Ensoniq ES1373 audio chip and a Boston Acoustics BA635 satellite-subwoofer speaker system.

At the heart of the Performance is its networking capability, provided by two Intel AnyPoint Home Network PCI cards. One card comes preinstalled and configured in the system; the second one is for you to install in an existing PC. Installation is relatively easy, although you can have a technician come to your home and install and configure your home network for an additional $169.

We had no difficulty setting up a home network using the Performance and a second 266MHz Pentium II Gateway system. The AnyPoint card uses standard RJ-11 phone cables to connect to ordinary phone jacks. The networked PCs communicate with each other via the existing telephone wiring in your home, but this doesn't interfere with the normal use of your phone lines. Once the systems are configured, they automatically and seamlessly log in to one another and share whatever resources you've permitted them to access. Obviously, sharing a single Internet connection is one of the arrangement's most practical features.

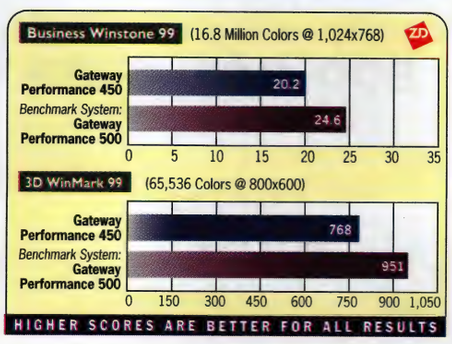
In addition to its home-networking ability, the Performance boasts excellent multimedia capabilities. And Gateway plans to upgrade to Boston Acoustics' USB-based BA735 digital three-piece speaker system. Equally impressive is the Performance's DVD movie-playback quality, which comes courtesy of Quadrant International's CineMaster software decoder.

The system supports up to a maximum display setting of 32-bit color at 1,280x1,024 with a 60Hz refresh rate. The Gateway EV700 monitor uses a flat-square tube with a 15.9-inch viewable area and a 0.28mm dot pitch. It displays a bright image with crisp colors—although our unit showed a noticeable soft focus in the corners.

In terms of handling applications, however, the system does not exactly live up to its name. Its Business Winstone score of 20.2, for example, is more akin to what we've seen for 450MHz Pentium II systems. This is explained in part by the Performance's slow hard drive and 2-D graphics subsystems. The system's Business Disk WinMark score of 2,810—39 percent slower than the 500MHz Pentium III reference system—was particularly surprising, considering that both systems use presumably faster 7,200-rpm Ultra ATA/66 hard drives and controllers.



The Performance 450 ships with one Intel AnyPoint Home Network PCI card installed and one for use in a second system.



Although the Performance's Business Graphics WinMark score of 131 is nearly 19 slower than our baseline average for a 450MHz Pentium II system, that is still fast enough for most applications. The system's 768 result on the 3D WinMark 99 test, meanwhile, is just 5 percent slower than our present average for 500MHz Pentium III systems. Anecdotal testing with Quake II and Incoming also proved the Performance is more than capable of sustaining high frame rates while rendering excellent-looking graphics.

Opening the 18.8x7.3x17.3-inch (HWD) midtower case is simply a matter of removing two thumbscrews and sliding off the side panel. A 64MB memory module resides in one of three DIMM slots; the system can use up to 384MB. Two PCI slots and one PCI/ISA slot remain vacant—as do two accessible 5.25-inch drive bays, one 3.5-inch bay, and two internal 3.5-inch bays. Color-coded ports on the back of the system include two PS/2, two USB, two serial, and one ECP/EPP parallel.

The Performance also features Gateway's familiar multifunction keyboard with dedicated controls for playing audio CDs, adjusting volume, and launching help, e-mail, and Internet applications. Bundled software includes Microsoft Works 99, Quicken Basic 99, Cyber Patrol, McAfee VirusScan, and MegaPhone. Moreover, Gateway further sweetens the deal by including one year of free Internet access in the purchase price.

The Performance is covered by a three-year parts-and-labor warranty with one year of onsite service. For an additional $99, you can add two more years of onsite support. Toll-free technical support and a comprehensive Web site are also available around the clock.

Although the Performance may not be a speed demon, it is certainly fast enough for most everyday applications. Users looking for both an easy entry into home networking and excellent multimedia features will not be disappointed. ▼

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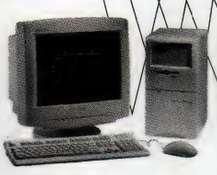
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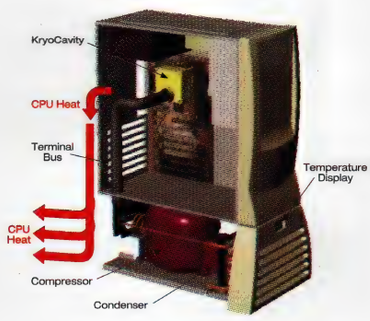
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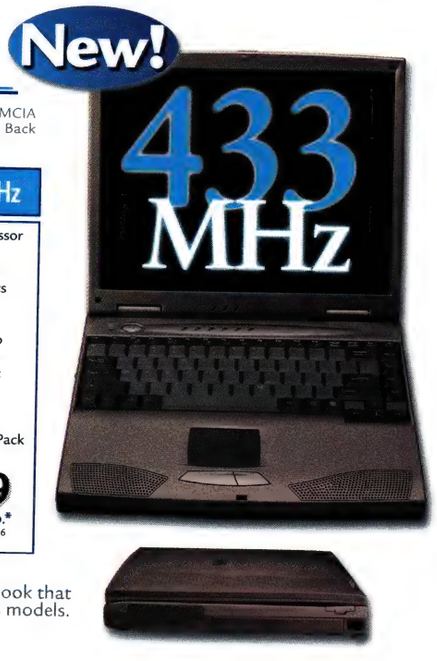
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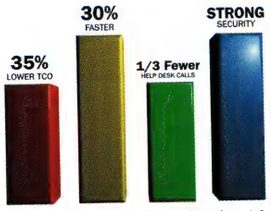
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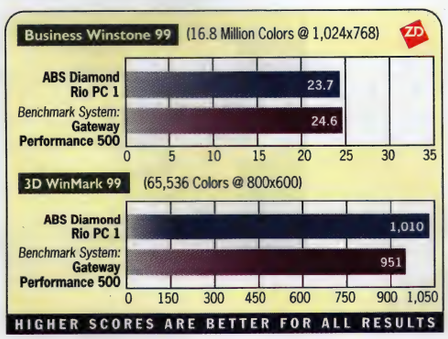
ABS creates a multimedia gem using a bevy of components from Diamond Multimedia Systems.

BY DANIEL A. BEGUN

With the power of the desktop computer hitting unprecedented levels, many vendors are focusing less on PC technology and more on system functionality—particularly in the area of entertainment. Those looking for a truly entertaining system would do well to check out the Diamond Rio PC 1 from ABS Computer Technologies.

As its name implies, this $2,199-direct package includes the Diamond Rio PMP300 portable MP3 audio player. But what is not so readily apparent by the system's name or by a quick glance at its exterior is that this PC actually includes a total of five devices from Diamond Multimedia Systems: the Rio, a Viper V770 graphics card, a Monster Sound MX300 sound card, a SupraExpress 56 PC V.90 data/fax/voice modem, and a GyroMouse Pro wireless mouse.

Using as many components as possible from a single manufacturer makes sense. Buying the components in a package can keep costs down, and ABS can pass the savings on to the customer.



Moreover, with all of the drivers originating from a single source, you're less likely to encounter device conflicts and should in theory have a more stable system.

Powering the Diamond system is a 500MHz Pentium III processor and 128MB of SDRAM. Other notable components include an 18GB IBM Deskstar 22GXP Ultra ATA/66 hard drive, a 19-inch Optiquest V95 monitor, an Altec Lansing ACS45.1W satellite-subwoofer speaker system, and a 4.8x Toshiba SD-M1202 DVD-ROM drive.

By using the included parallel-port pass-through connector, MP3 files are downloaded to the 32MB onboard memory of the Rio player. The audio quality of MP3 files is nearly indistinguishable from that of an audio CD. Suffice it to say, they sounded great emanating from the Altec Lansing speaker system.

In fact, all audio playback is amazingly crisp and clear. The Monster sound card's hardware-based wavetable-synthesis support provides highly realistic MIDI playback, and its Aureal Vortex 2 chip supports astounding 3-D positional audio with selected games, such as Unreal, Half-Life, and Recoil—which, we're happy to say, all come bundled with the system.

DVD movie playback also sounds and looks great using the Diamond SoftDVD decoder, which comes bundled with the Viper V770 graphics card. The V770 is based on the nVidia Riva TNT2, one of the latest and fastest 2-D/3-D accelerator chips. With the V770 driving the Optiquest monitor, a very bright and sharp image appears on the 0.26mm-dot-pitch, 18-inch-viewable display. Although the system supports a maximum display setting of 32-bit color at 1,600x1,200 and 75Hz, we noticed significant degradation of the CRT's focus at resolutions above 1,024x768.



A Diamond Rio PMP300 MP3 player, Monster Sound MX300 sound card, and GyroMouse Pro wireless mouse add to the Diamond Rio PC 1's appeal.

The SupraExpress V.90 modem supports voice mail and speakerphone functions as well as Caller ID. It also supports Diamond's bandwidth-doubling Shotgun technology. With a second SupraExpress modem ($99), a second phone line, and an ISP that supports Shotgun, you could connect at rates up to 112Kbps. And while you're online, you could use the included CMOS-based Xirlink video camera to "video chat" with your friends or family.

Navigating your desktop is enjoyable using the wireless GyroMouse. The untethered freedom this device gives you is a big plus. To move the mouse, you point and click from up to 40 feet away—either on your desk like a traditional mouse or with the mouse held in midair. It seems like magic, but in reality is possible because of the GyroMouse's built-in motion-sensing gyroscope. The GyroMouse includes a rechargeable battery and a charging cradle.

Because the system lacks an Ultra ATA/66 controller, the hard drive's top burst-transfer rate is limited to 33MB/sec. Nevertheless, the Diamond's overall performance is in line with this class of system. Where the Diamond excels is 3-D graphics. Its 897 score on the 3D WinMark 99 test at 1,024x768 was one of the best we've seen to date, and anecdotal game testing further confirmed the TNT2's superb 3-D performance.

Inside the 15.8x8.6x17.9-inch (HWD) midtower case are one empty ISA and three unused PCI slots. The system's 128MB of memory populates two of the three DIMM slots. (The slots can handle up to 384MB.) Two 5.25-inch accessible drive bays remain vacant, as does one 3.5-inch accessible bay. Labeled ports include two serial, one parallel, two PS/2, one game, and two USB.

The Diamond is covered by a three-year parts and lifetime labor warranty, which can be expanded to three years of onsite service for $185. Toll-free phone support is available around the clock, and our test call to the ABS support line was answered on the first ring.

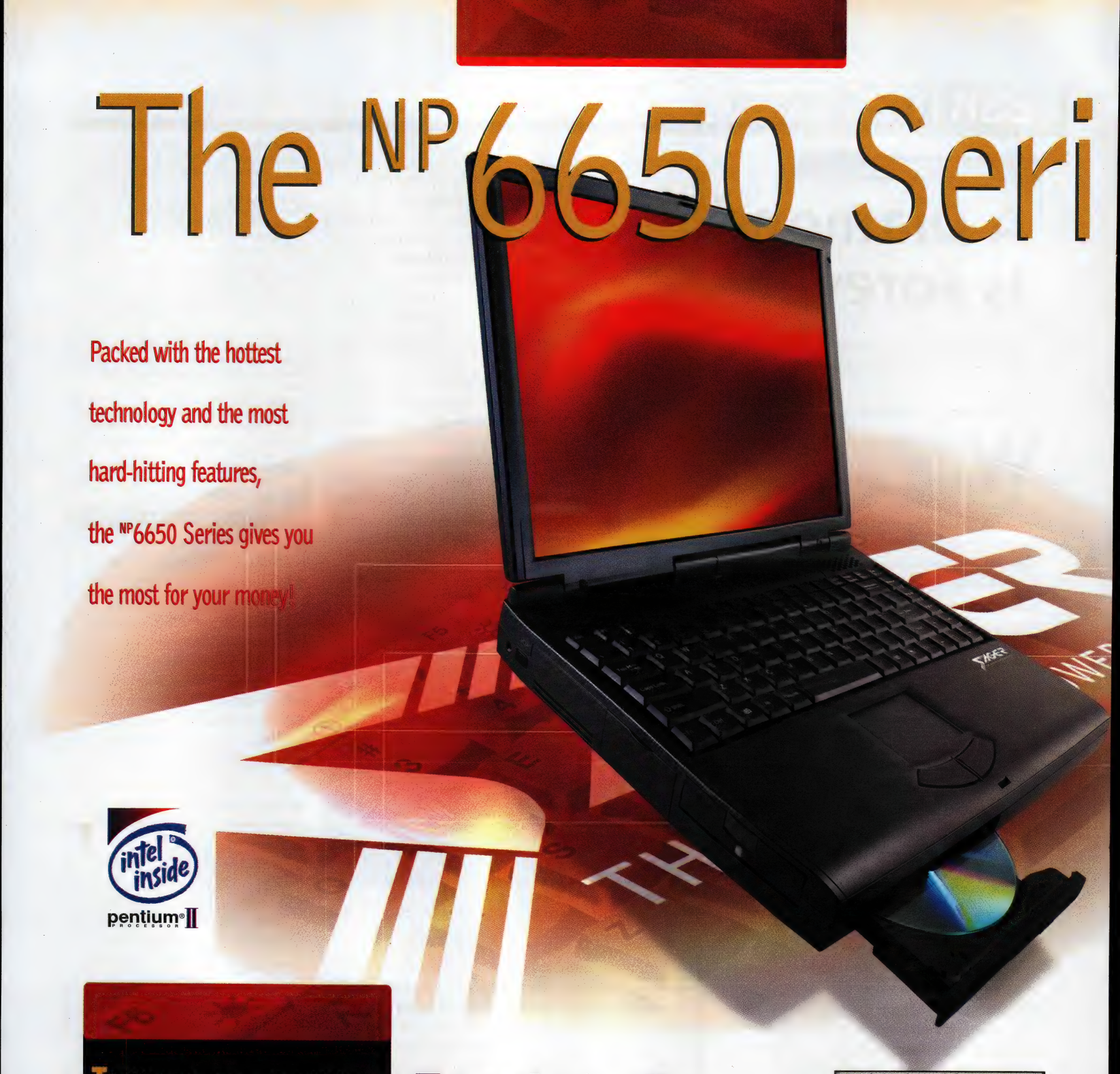
ABS consistently manages to undercut the competition when it comes to price, and the Diamond Rio PC 1 is no exception. Whether you want top-notch performance, the ultimate game-playing experience, or a system for an audiophile, the Diamond Rio PC 1 fits the bill. ▼

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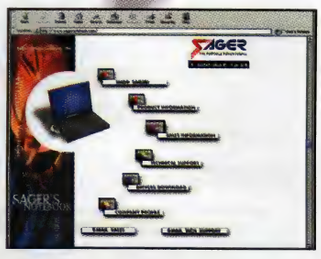
Packed with the hottest technology and the most hard-hitting features, the NP6650 Series gives you the most for your money!



intel inside pentium® II PROCESSOR

The NP6650 Series come loaded with the powerful Intel® Pentium® II Processor with 256KB on-die L2 Cache, harnessing a 14.1" XGA or 13.3" XGA, 3D graphics and audio and a blazing fast 24X CD-ROM or 4X DVD-ROM drive. With 2X AGP 8MB Video SDRAM, you can have the fastest graphics performance and the highest 3D quality. These notebooks are truly some of the best deals in portable computing.

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es

Featuring

Intel® Pentium® II Processor

2X AGP 8MB Video SDRAM

256KB on-die L2 Cache

3D Graphics and Audio

Optional 4X DVD-ROM Drive

Optional LS-120 or Zip Drive

NP6650A

> 14.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 400MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 256MB
> 10.0GB Ultra DMA Hard Drive
> 4X DVD-ROM Drive
> Smart Lithium-Ion Battery

$2445

NP6650B

> 14.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 400MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 256MB
> 6.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> Smart Lithium-Ion Battery

$2195

NP6650C

> 14.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 366MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 256MB
> 6.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> Smart Lithium-Ion Battery

$2045

NP6650D

> 14.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 333MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 256MB
> 6.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> Smart Lithium-Ion Battery

$1945

NP6650E

> 13.3" XGA Active Matrix Display
> Intel® Pentium® II Processor 366MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 256MB
> 6.0GB Ultra DMA Hard Drive
> 4X DVD-ROM Drive
> Smart Lithium-Ion Battery

$2145

NP6650F

> 13.3" XGA Active Matrix Display
> Intel® Pentium® II Processor 333MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 256MB
> 4.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> Smart Lithium-Ion Battery

$1795

OPTIONS

> Battery Charger
> Car Adapter
> Docking Station
> Iomega® Zip Drive
> LS-120 Drive
> Numeric Keypad
> USB Video Camera

PCMCIA

Ethernet/33.6 FAX/ Modem Combo
$ 155
33.6 DATA/FAX
$ 60
56K DATA/FAX
$ 75
Ethernet Combo
$ 50
Ethernet 10/100 16-bit
$ 90

NP6650 Common Features

> Intel® Pentium® II Processor
> 256KB on-die L2 Cache
> 2X AGP 8MB ATI Rage Pro 3D Video
> AGP Bus Hardware 3D Graphics Accelerator
> Supports Ultra DMA HDD for High Speed Access
> 24X CD-ROM Drive or optional 4X DVD-ROM Drive
> Modular 3.5" 1.44MB FDD exchangeable with optional Iomega® Zip Drive, LS-120 Drive or 2nd Battery
> 3D Audio and Built-in WaveTable Stereo
> 2 Built-in single watt Speakers & 1 Microphone
> Built-in Touchpad Pointing Device
> 2 Type II or 1 Type III PCMCIA Slots which Support ZV-Port & Card Bus
> Smart Lithium-Ion Battery
> Infra Red, Wireless Fast IR Interface
> 1 USB Port
> 1 TV-Out Port
> Other Ports: 1S, 1P, Ext. Keyboards and Ext. CRT
> Jacks: 1 Line-in, 1 Line-out & 1 Microphone
> A4 Size 86-key Windows® 95 Keyboard for Easy Typing
> Microsoft® Windows® 98
> Carrying Bag & AC Adapter
> Weight: 7.6lbs with Battery
> 12.7"w x 10.1"d x 2.0"h
> Sager's Umbrella Protection Policy

SPECIAL PRICING

Government, corporate and other special rates are available. Please call for details.
GSA Contract # GS00K94AGS5320

BUSINESS LEASING AVAILABLE

Program Administered by: Freedom Capital
"Specializing in Equipment Leasing"

Optional 3 Year Extended Warranty from General Electric Available.

SAGER'S UMBRELLA PROTECTION POLICY

> 30-Day Money-Back Guarantee. If the equipment does not work as promised, or if you are not fully satisfied, we will issue a full refund upon the return of all original equipment.
> 48-hour Repair Promise. For the first 30 days, we'll repair or replace your computer within 48 hours, and we'll pay the 2nd day air return shipping charge.
> 72-hour Repair Promise. For the rest of the 1-year warranty period, if it takes more than 72-hours to repair your computer, we'll pay 2nd day air return shipping charge.
> 1-year Parts and Labor Limited Warranty.
> Lifetime Toll-Free Technical Support.

Umbrella Policy Applies to End Users in the United States of America and in Canada only and 48-hour/72-hour repair policies apply to hardware only. Software problems may take longer.

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Common Features

- Intel® Celeron™ Processor
- 128KB on-die L2 Cache
- AGP Bus Hardware 3D Graphics Accelerator
- Modular 3.5" 1.44MB FDD exchangeable with optional LS-120 Drive, 2nd Battery, 2nd Hard Drive (NP8530, NP2330), Iomega® Zip Drive (NP8530)
- 3D Audio and Built-in Wavetable Stereo
- Built-in Touchpad Pointing Device
- 2 Type II or 1 Type III PCMCIA slots which Support ZV-Port & Card Bus
- Infra Red, Wireless Fast IR Interface
- USB and TV-Out Ports (NP5130), 2 USB and TV-Out and Video-in Ports (NP8530, NP2330)
- Other Ports: 1S, 1P, Ext. Keyboards and Ext. CRT
- Jacks: 1 Line-in, 1 Line-out & 1 Microphone
- A4 Size Windows® 95 Keyboard (NP2330, NP5130), 101-key Windows® 95 Keyboard with Integrated Numeric Keypad (NP8530)
- Microsoft® Windows® 98
- Carrying Bag & AC Adapter
- Weight with Battery: 9.9lbs (NP8530), 7.6lbs (NP2330), 6.5lbs (NP5130)
- 14.0"w x 11.0"d x 2.2"h (NP8530)
  12.4"w x 10.1"d x 1.8"h (NP2330)
  11.0"w x 9.4"d x 1.6"h (NP5130)
- Sager's Umbrella Protection Policy

intel inside celeron™ PROCESSOR

PCMCIA
Ethernet/33.6 FAX/ Modem Combo
$ 155
33.6 DATA/FAX
$ 60
56K DATA/FAX
$ 75
Ethernet Combo
$ 50
Ethernet 10/100 16-bit
$ 90

Options

- Car Adapter
- Iomega® Zip Drive (NP8530)
- LS-120 Drive
- Numeric Keypad (NP2330, NP5130)
- Port Replicator (NP8530, NP2330)
- USB Video Camera

SPECIAL PRICING

Government, corporate and other special rates are available. Please call for details.
GSA Contract # GS00K94AGS5320

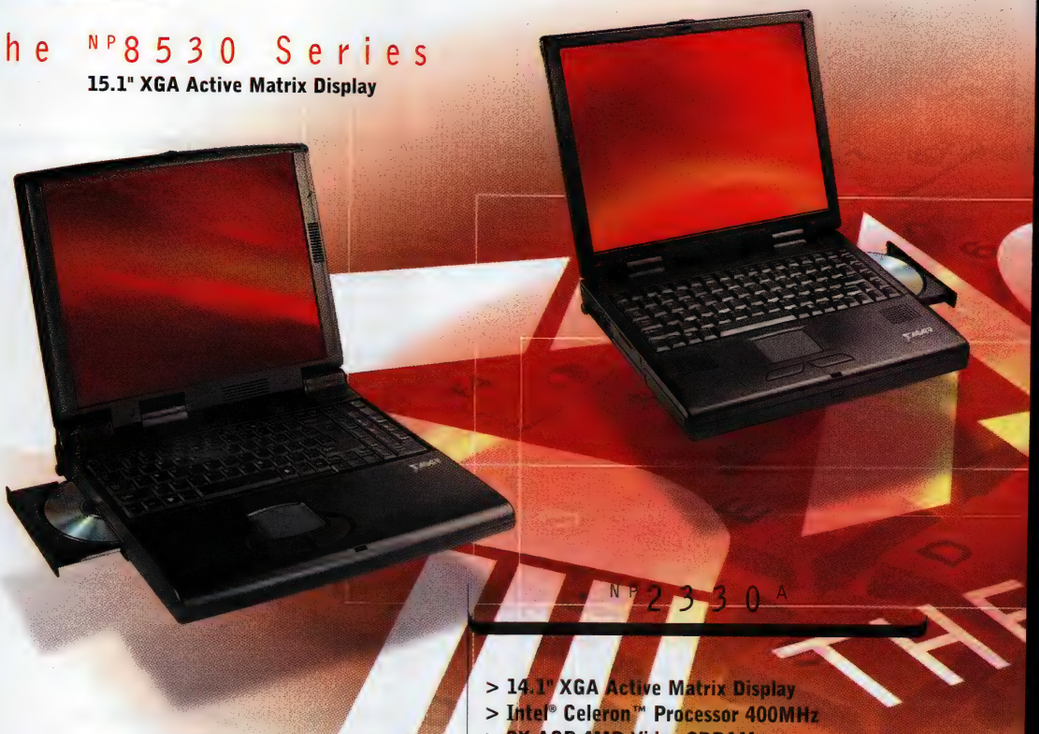
BUSINESS LEASING AVAILABLE

Program Administered by: Freedom Capital
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Optional 3 Year Extended Warranty from General Electric Available.

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The NP8530 Series
15.1" XGA Active Matrix Display



NP8530A
- 15.1" XGA Active Matrix Display
- Intel® Celeron™ Processor 400MHz
- 2X AGP 8MB Video SDRAM
- 64MB SDRAM expandable to 384MB
- 6.0GB Ultra DMA Hard Drive
- 4X DVD-ROM Drive
- 75.6w Smart Lithium-Ion Battery

$2195

NP8530B
- 15.1" XGA Active Matrix Display
- Intel® Celeron™ Processor 400MHz
- 2X AGP 8MB Video SDRAM
- 64MB SDRAM expandable to 384MB
- 6.0GB Ultra DMA Hard Drive
- 24X CD-ROM Drive
- 75.6w Smart Lithium-Ion Battery

$2045

NP8530C
- 15.1" XGA Active Matrix Display
- Intel® Celeron™ Processor 400MHz
- 2X AGP 8MB Video SDRAM
- 64MB SDRAM expandable to 384MB
- 4.0GB Ultra DMA Hard Drive
- 24X CD-ROM Drive
- 75.6w Smart Lithium-Ion Battery

$1945

The NP2330 Series
14.1" XGA Active Matrix Display

NP2330A
- 14.1" XGA Active Matrix Display
- Intel® Celeron™ Processor 400MHz
- 2X AGP 4MB Video SDRAM
- 64MB SDRAM expandable to 256MB
- 6.0GB Ultra DMA Hard Drive
- 4X DVD-ROM Drive
- Smart Lithium-Ion Battery

$1945

NP2330B
- 14.1" XGA Active Matrix Display
- Intel® Celeron™ Processor 400MHz
- 2X AGP 4MB Video SDRAM
- 64MB SDRAM expandable to 256MB
- 6.0GB Ultra DMA Hard Drive
- 24X CD-ROM Drive
- Smart Lithium-Ion Battery

$1745

NP2330C
- 13.3" XGA Active Matrix Display
- Intel® Celeron™ Processor 400MHz
- 2X AGP 4MB Video SDRAM
- 64MB SDRAM expandable to 256MB
- 4.0GB Ultra DMA Hard Drive
- 24X CD-ROM Drive
- Smart Lithium-Ion Battery

$1645

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The NP5130 Series
12.1" SGVA Active Matrix Display



> 12.1" SVGA Active Matrix Display
> Intel® Celeron™ Processor 366MHz
> 4MB Video SDRAM with AGP
> 32MB SDRAM expandable to 256MB
> 4.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> NiMH Battery

$1295

NP5130B

> 12.1" SVGA Dual Scan Display
> Intel® Celeron™ Processor 366MHz
> 4MB Video SDRAM with AGP
> 32MB SDRAM expandable to 256MB
> 4.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> NiMH Battery

$1145

The NP5130, NP2330 and NP8530 Series are best described as hot, hotter and hottest. Their unparalleled multimedia capability allows these systems to run either CD-ROM or DVD-ROM without missing a beat. If flexible performance is what you are looking for, the NP2330 has it all – unbelievable modularity and all the ports available on a laptop today. If it's size you are after, big or small, look no further. With the NP8530 Series you'll be surfin' the net on 15.1 inches of LCD display, while the NP5130 Series is small, slim, light but still all-in-one. All of the systems in these series are anchored by the Intel® processor of your choice. Just tell us how high and we'll make your system jump.

Sager Notebooks is committed to rich technology and exciting performance at an affordable price. You can have it all.

The Value Series

1624

The NP8550 Seri

When you want the ultimate in notebook flexibility, performance, and features, the NP8550 Series has everything you need and more!



intel inside pentium II PROCESSOR

The NP8550 Series has the biggest features to allow you to work bigger, better and faster. The 15.1" XGA display has a viewing area comparable to most 17" desktop monitors. Each notebook has a 101-key keyboard with an integrated numeric keypad to make any type of data-entry a simple task. And if you need speed, these notebooks are anchored with some of the fastest processors produced. Need we say more?

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es

Featuring

15.1" 1024x768 XGA Display

2X AGP 8MB Video SDRAM

One 1394 and Two USB Ports

Integrated Numeric Keypad

75.6w Smart Lithium-Ion Battery

Optional LS-120 or Zip Drive

NP8550A

> 15.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 400MHz
> 2X AGP 8MB Video SDRAM
> 128MB SDRAM expandable to 384MB
> 10.0GB Ultra DMA Hard Drive
> 4X DVD-ROM Drive
> 75.6w Smart Lithium-Ion Battery

$2845

NP8550B

> 15.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 400MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 384MB
> 6.0GB Ultra DMA Hard Drive
> 4X DVD-ROM Drive
> 75.6w Smart Lithium-Ion Battery

$2645

NP8550C

> 15.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 366MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 384MB
> 10.0GB Ultra DMA Hard Drive
> 4X DVD-ROM Drive
> 75.6w Smart Lithium-Ion Battery

$2595

NP8550D

> 15.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 400MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 384MB
> 6.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> 75.6w Smart Lithium-Ion Battery

$2495

NP8550E

> 15.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 366MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 384MB
> 6.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> 75.6w Smart Lithium-Ion Battery

$2345

NP8550F

> 15.1" XGA Active Matrix Display
> Intel® Pentium® II Processor 333MHz
> 2X AGP 8MB Video SDRAM
> 64MB SDRAM expandable to 384MB
> 6.0GB Ultra DMA Hard Drive
> 24X CD-ROM Drive
> 75.6w Smart Lithium-Ion Battery

$2245

OPTIONS
> Car Adapter
> Iomega® Zip Drive
> LS-120 Drive
> Port Replicator
> USB Video Camera

PCMCIA
Ethernet/33.6 FAX/ Modem Combo
$ 155
33.6 DATA/FAX
$ 60
56K DATA/FAX
$ 75
Ethernet Combo
$ 50
Ethernet 10/100 16-bit
$ 90

NP8550 Common Features

> Intel® Pentium® II Processor
> 256KB on-die L2 Cache
> 2X AGP 8MB ATI Rage Pro 3D Video
> AGP Local Bus Hardware 3D Graphics Accelerator
> 24X CD-ROM Drive or optional 4X DVD-ROM Drive
> Modular 3.5" 1.44MB FDD exchangeable with optional Iomega® Zip Drive, LS-120 Drive or 2nd Hard Drive
> 3D Audio and Built-in WaveTable Stereo
> 2 Built-in Stereo Speakers & 1 Microphone
> Built-in Touchpad Pointing Device
> 2 Type II or 1 Type III PCMCIA Slots which Support ZV-Port & Card Bus
> 75.6w Smart Lithium-Ion Battery
> Infra Red, Wireless Fast IR Interface
> 1 IEEE-1394 High Performance Serial Bus
> 2 USB Ports
> 1 TV-Out Port
> Other Ports: 1S, 1P, Video-in, Ext. Keyboards and Ext. CRT
> Jacks: 1 Line-in, 1 Line-out & 1 Microphone
> 101-key Windows® 95 Keyboard with Integrated Numeric Keypad
> Microsoft® Windows® 98
> Carrying Bag & AC Adapter
> Weight 9.9lbs with Battery
> 14.0"w x 11.0"d x 2.2"h
> Sager's Umbrella Protection Policy

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Government, Corporate and other special rates are available. Please call for details.
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Powered by your notebook through PCMCIA power/data connection

MP-21C

Mobile color ink jet printer

Printing is now a snap on the road with Brother's MP-21C ultra-portable color ink jet printer. It is small enough to fit into a briefcase or laptop carrying case. This lightweight and compact printer measures less than 2 inches wide. Achieve up to 720 x 720 dpi color printing at speeds up to 2.5 ppm. Although small in size, there's no compromise on image quality. Brother's MP-21C utilizes piezo based ink jet technology and produces sharp text and graphics, as well as photo quality output. The MP-21C is capable of printing on a variety of media, including plain or coated paper as well as other media including transparencies.

$299.99
CDW 149434

MP-21C dx Mobile color ink jet printer
- Autodocument feeder
- Power adapter
- Includes parallel cable

$349.99
CDW 149437



IBM®

The ultimate all-in-one on the road

ThinkPad 570

Notebook computer

- 366MHz Intel® Pentium® II processor
- 64MB RAM
- 6.4GB hard drive
- 56Kbps (V.90) modem
- 13.3" active matrix
- Microsoft Windows® 98
- 1" thick
- 4.02 lbs.

$3497.49
CDW 160063



OPTIONS by IBM.

ThinkPad 570 UltraBase

Docking base for the ThinkPad 570 Series

$129.79
CDW 160238



SONY®

Thinner, lighter and more powerful

VAIO SuperSlim Series notebook computers

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• 300MHz Intel® Pentium® MMX	• 333MHz Intel® Celeron™	• 366MHz Intel® Pentium® II
• 64MB RAM	• 64MB RAM	• 128MB RAM
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• 10.4" active matrix	• 56Kbps (V.90) modem	• 56Kbps (V.90) modem
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• 3.1 lbs.	• 1" thick	• 1" thick
	• 3.5 lbs.	• 3.5 lbs.
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Internet connectivity requires access services from an Internet access provider. Contact your local access provider for rates, terms and conditions.

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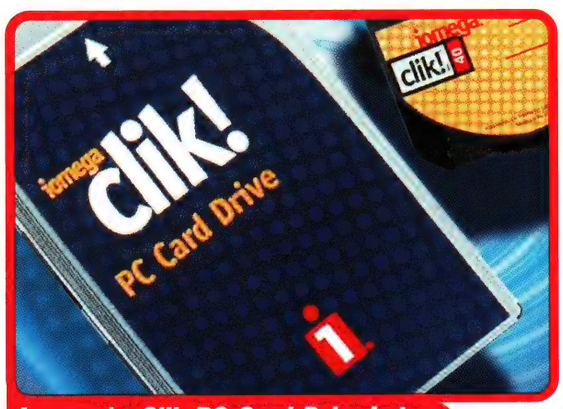
COMPUTER SHOPPER

MOBILE

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in the fast lane

Sporting Intel's Latest Processor, Quantex's I-1511 Speeds Up to 400MHz



Iomega's *Clik PC Card Drive* Lets Ultraportable Users Back Up Data



Upgrade Your Notebook With EXP's *DVD Traveler Plus* Drive



94% of desktops fear being replaced.



SOLO® 9150 — The desktop replacement with an optional **15" display** and 2X AGP graphics.

SOLO 9150SE

- 14.1" XGA TFT Color Display
- Intel® Pentium® II Processor 333MHz
- 64MB SDRAM (expandable to 384MB)
- 2X AGP 3-D ATI RAGE™ LT PRO with 8MB SGRAM
- Removable Combo DVD-II Drive & 120MB SuperDisk™ Drive
- 6.4GB Ultra ATA Hard Drive
- Lithium Ion Battery & AC Pack
- NTSC/PAL Video Input & Output
- Integrated V.90 56K[4] Modem
- Deluxe Leather Case
- EZ Pad® Pointing Device
- Starting Weight: 8.6 lbs.[3]
- Microsoft® Works Suite 99 Software
- 1-Year Parts, Labor & On-Site Service[7]

$2499 or as low as $70/mo. for 48 mos.[5] through our Your:)Ware℠ program[1]

SOLO 9150LS

- 15.1" XGA TFT Color Display
- Intel Pentium II Processor 366MHz
- 64MB SDRAM (expandable to 384MB)
- 2X AGP 3-D ATI RAGE LT PRO with 8MB SGRAM
- Removable Combo DVD-II Drive & 120MB SuperDisk Drive
- 10GB Ultra ATA Hard Drive
- Lithium Ion Battery & AC Pack
- NTSC/PAL Video Input & Output
- Integrated V.90 56K[4] Modem
- Deluxe Leather Case
- EZ Pad Pointing Device
- Starting Weight: 8.6 lbs.[3]
- MS® Office 2000 Small Business Software
- 1-Year Parts, Labor & On-Site Service[7]

$3199 or as low as $89/mo. for 48 months[5] through our Your:)Ware program[1]

SOLO 9150XL

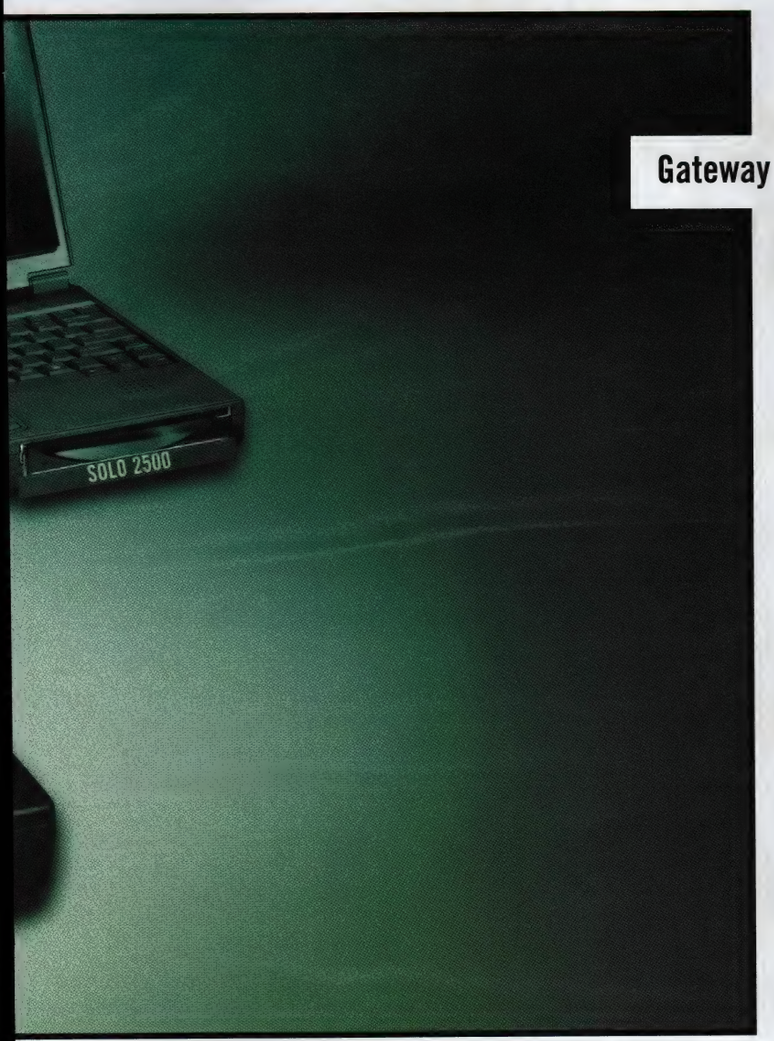
- 15.1" XGA TFT Color Display
- Intel Pentium II Processor 400MHz
- 256MB SDRAM (expandable to 384MB)
- 2X AGP 3-D ATI RAGE LT PRO with 8MB SGRAM
- Removable Combo DVD-II Drive & 120MB SuperDisk Drive
- 14GB Ultra ATA Hard Drive
- Two Lithium Ion Batteries & AC Pack
- NTSC/PAL Video Input & Output
- Integrated V.90 56K[4] Modem
- Deluxe Leather Case
- EZ Pad Pointing Device
- Port Replicator & External Battery Charger
- Starting Weight: 8.6 lbs.[3]
- MS Office 2000 Small Business Software
- 1-Year Parts, Labor & On-Site Service[7]

$4699 or as low as $131/mo. for 48 mos.[5] through our Your:)Ware program[1]

All Solo 9150 Portable PCs include: USB Ports, CardBus, Zoomed Video Support, EZ S.M.A.R.T.™ Hard Drive Monitoring Protection Service, NTSC/PAL Video Input & Output, Integrated 16-Bit Sound & Stereo Speakers, Microsoft Windows® 98, LapLink® V.7.5 for Windows 98, McAfee® VirusScan and Year 2000 Compliance.[6]

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99% of these portables give them good reason.



Gateway introduces the ultimate desktop replacement.

intel inside pentium II

And what wouldn't fear the Gateway™ Solo® 9150? The nature of this beast is powerful enough to replace many desktop PCs. And let's not forget about the Solo 2500. A lighter, flexible alternative at a great value. Even better, with our Your:)Ware℠ program,[1] you can make low monthly payments. After two years, you can trade it in toward the purchase of a new one.[2] If all this just happens to make some desktops a little uneasy...good.

SOLO 2500 — A solid entry-level portable with all the necessary stuff built in.

SOLO 2500SE

- 12.1" SVGA TFT Color Display
- Intel® Celeron™ Processor 333MHz
- 32MB SDRAM (expandable to 288MB)
- 2MB Graphics Accelerator with 64K Colors
- Integrated 10X min/24X max CD-ROM Drive & 3.5" Disk Drive
- 4GB Ultra ATA Hard Drive
- NiMH Battery & AC Pack
- NTSC/PAL Video Output
- EZ Pad Pointing Device
- Starting Weight: 7.1 lbs.[3]
- Corel® WordPerfect® Suite 8 Software
- 1-Year Parts & Labor[7]

$1499 or as low as $42/mo. for 48 mos.[5] through our Your:)Ware program[1]

SOLO 2500LS

- 13.3" SVGA TFT Color Display
- Intel® Pentium® II Processor 333MHz
- 32MB SDRAM (expandable to 288MB)
- 2MB Graphics Accelerator with 64K Colors
- Integrated DVD-II Drive & 3.5" Disk Drive
- 4GB Ultra ATA Hard Drive
- Lithium Ion Battery & AC Pack
- NTSC/PAL Video Output
- V.90 56K[4] Modem
- Casual Case
- EZ Pad Pointing Device
- Starting Weight: 7.1 lbs.[3]
- MS Office 2000 Small Business Software
- 1-Year Parts & Labor[7]

$2299 or as low as $64/mo. for 48 mos.[5] through our Your:)Ware program[1]

SOLO 2500XL

- 13.3" SVGA TFT Color Display
- Intel Pentium II Processor 400MHz
- 128MB SDRAM (expandable to 288MB)
- 2MB Graphics Accelerator with 64K Colors
- Integrated DVD-II Drive & 120MB SuperDisk Drive
- 6.4GB Ultra ATA Hard Drive
- Lithium Ion Battery & AC Pack
- NTSC/PAL Video Output
- V.90 56K[4] Modem
- Casual Case
- EZ Pad Pointing Device
- Starting Weight: 7.1 lbs.[3]
- MS Office 2000 Small Business Software
- 1-Year Parts & Labor[7]

$2999 or as low as $84/mo. for 48 mos.[5] through our Your:)Ware℠ program[1]

All Solo 2500 Portable PCs include: USB Ports, CardBus, Zoomed Video Support, EZ S.M.A.R.T. Hard Drive Monitoring Protection Service, Integrated 16-Bit Sound & Stereo Speakers, Microsoft Windows 98, LapLink V.7.5 for Windows 98, McAfee VirusScan and Year 2000 Compliance.[6]

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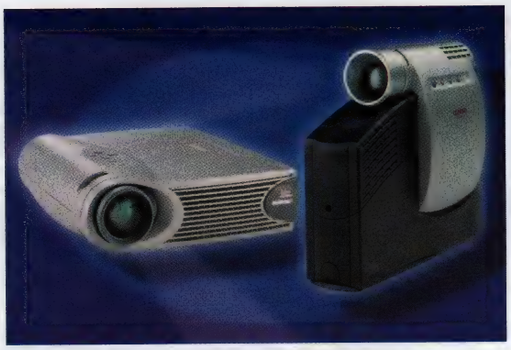
Shrinking prices and form factors spur rapid growth in the ultraportable-projector market.

You can practically hear sighs of relief rising from the shoulders of business travelers who lug portable projectors for presentations. That's because a new round of portables, weighing 5 pounds or less, is starting to hit the market at prices as low as $5,000.

And as their size and price continue to shrink, their popularity is expected to continue its rapid growth. Market growth for ultraportable projectors should grow 137 percent in 1999 over 1998, according to **Pacific Media Associates,** a Mountain View, Calif., research firm specializing in large-screen displays.

"The real takeoff point will be when projectors approach the size and price of the host notebook computer," says Bill Coggshall, president of Pacific Media.

Designed for small conference rooms, these ultraportable projectors use DLP technology to yield lighter, smaller models than projectors that favor LCD panels. LCD-based projectors filter or "push" light through liquid-crystal-display panels to produce images; DLP units reflect light off micromirrors. Reflective technology requires less light, thereby generating less heat. And that means engineers can design projectors with smaller form factors and smaller fans.



InFocus LP330 (left), Compaq MP1600 Microportable Projector (right)

Heading up the lineup of new DLP projectors is **NEC's MultiSync LT140,** a 5.3-pound unit that delivers advanced features, but also carries the highest heft and price. This 3x9.3x11.9-inch (HWD) model's most distinguishing feature is a PC Card viewer that lets users run a presentation from any form of PC Card media. It also has a PC Card-size remote control that slides into the projector, a manual zoom, and a USB port. This XGA projector, which is rated at a bright 800 ANSI lumens, will be priced between $7,000 and $9,000. It's due to ship in mid-August.

Another featherweight comes from **InFocus,** a company known for its innovative projectors. Its new **LP330** is an XGA unit that weighs in at 4.9 pounds and measures 2.5x9x10.5 inches. Its 120-watt mercury-arc lamp displays images at 650 lumens, and its fan is whisper-quiet.

The LP330 also sports a manual zoom, a 3-watt speaker, an adjustable elevator foot, and a set of ports for a computer and other video sources. InFocus has added a new executive remote control that has mouse control, standby, menu, video, and computer buttons. The LP330 has a list price of $6,999.

A rookie to the projector market, **Compaq Computer Corp.** has engineered the most portable and lowest-price unit yet. The 4.2-pound **Compaq MP1600 Microportable Projector** has a native XGA resolution and is expected to sell for just under $5,000. It shares nearly the same dimensions (2.5x8.25x9 inches) as the InFocus LP330, although the Microportable Projector stands vertically rather than horizontally.

The Microportable Projector has a manual zoom and a set of ports that supports both VGA and the digital-flat-panel (DFP) interface. In addition, it can recognize the signal from the host and automatically adjust its settings for the correct resolution.

The projector is clad in magnesium alloy and has a 120-watt mercury lamp with a brightness of 600 ANSI lumens. Although it does not come with a remote control, it does have an intuitive five-button interface that makes navigating its menus a breeze. The Microportable Projector comes with a management utility, which tracks the bulb hours and will inform the user before it's time to replace the bulb.

If your last encounter with a portable projector was with one of the 15-pound behemoths of a few years back, it's time to take a new look at the new breed of ultraportables. After all, you're a businessperson, not a bodybuilder.

—Richard S. Shim

ACTIVE LINKS

www.pacificmediaassociates.com ..... *Research information on large-screen displays*
www.presentersuniversity.com ..... *Great tips on giving presentations*
www.ti.com/dlp/main.html ..... *A primer on DLP from the innovator of the technology*

Coggshall says the growth of the ultraportable market is also due in part to corporations starting to view the devices as computer peripherals. Instead of an office sharing one projector, each individual now gets a dedicated unit. Another factor fueling growth is the method of purchase, he says, noting that buyers are now shopping for projectors at the same time they are looking for notebooks.

NEWSBITS

COMPAQ LAUNCHES AN AERO
Compaq Computer Corp. has produced a Windows CE Professional Edition HPC that targets the enterprise market. Compaq's $999 **Aero 8000,** like **IBM's WorkPad z50,** adds specialized management and remote-access capabilities to the usual apps found in this class of device.

The 2.95-pound Aero is packed with IT-pleasing features that include synchronization capabilities with Lotus Notes for e-mail access and server-based computing with ROM-based Citrix ICA CE Client software for remotely running full applications. Users will appreciate its 10-inch display, among the largest for the HPC category, and its eminently usable 18mm-pitch keyboard. The Aero comes with 16MB of SDRAM, a V.90 modem, and a touch-pad pointing device.



Olympus DS-150 Digital Voice Recorder

DIGITAL CHATTER
Olympus has released a slim new digital voice recorder that can store up to 198 messages and features speech-to-text conversion capabilities. The $199 **DS-150 Digital Voice Recorder** weighs a trim 2.4 ounces, sports an LCD control panel, and is the first such device to offer a USB connection to the PC for downloading speech files. The recorder can be found with either **IBM's Via Voice** or **Lernout & Hauspie's Voice Xpress Mobile Professional** to convert speech to text. ▼

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—CNET, January '99

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Monitor	12.1" SVGA TFT display	15" XGA TFT display	15" XGA TFT display
Graphics	8MB AGP graphics accelerator	8MB AGP graphics accelerator	8MB AGP graphics accelerator
CD-ROM	24X var. speed CD-ROM drive°	24X var. speed CD-ROM drive°	24X var. speed CD-ROM drive°
Extra Storage	3.5" floppy disk drive (dedicated bay)	3.5" floppy disk drive (dedicated bay)	SuperDisk LS 120
Software	Microsoft Windows® 98	Microsoft Windows NT® Workstation 4.0	Microsoft Windows NT Workstation 4.0
Micron U	1-year free^Δ^ training @ Micron U online	1-year free^Δ^ training @ Micron U online	1-year free^Δ^ training @ Micron U online
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QUANTEX I-1511

400MHz of Mobile Muscle

This 400MHz Pentium II-based desktop replacer packs in a 15-inch LCD and a raft of high-end components.

BY RAYMOND M. PADILLA

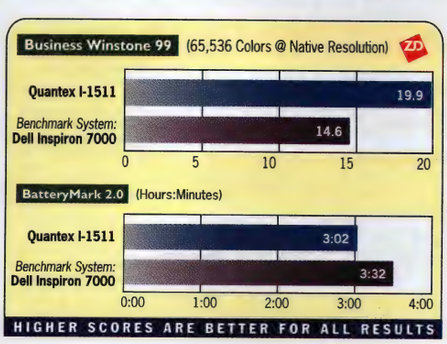
With desktop-replacement notebooks, bigger is almost always better. That's because the system serves as the user's primary PC and must deliver all the power and features of a desktop system, yet maintain the mobility of a portable PC. Quantex Microsystems' new 400MHz Pentium II-based I-1511 manages to fuse the best of both platforms into an 8.4-pound powerhouse package priced at only $3,099 direct.

The I-1511 is the first system we've seen built around Intel's hot-off-the-fab 400MHz Pentium II mobile processor. It also features a great 15.1-inch XGA display that will satisfy the needs of desktop users. Other highlights include 128MB of SDRAM, the processor's 256K of integrated L2 cache, an 8.1GB hard drive, a 2x DVD-ROM drive with Quadrant's software MPEG decoder, 8MB of graphics memory, and an integrated V.90 56Kbps modem. Given this lineup of components, we anticipated some top-notch performance scores. And in most cases, we were not disappointed.

The I-1511 turned in the highest scores to date on the Business Graphics WinMark 99, the 3D WinMark 99, and the CD-ROM WinMark 99 tests. But its Winstone 99 score of 19.9 was a little lower than we had expected, given the 400MHz Pentium II. In fact, that score is more in line with those we've seen from 366MHz Pentium II-based desktop-replacement units.



Quantex outfits the I-1511 with a panoramic 15.1-inch display that doesn't weigh down the unit.



The Quantex's Disk WinMark 99 score of 1,820 was also lower than expected, which may explain the slightly subpar Winstone result. The notebook's 8.1GB IBM Deskstar hard drive is smaller than the drives of other desktop-replacement units we've recently tested, which have had drives as roomy as 14GB. And judging by the unit's CPUmark 99 score of 34.7—a new high among notebooks—the I-1511 should have been able to squeeze out a few more points if outfitted with a better-performing hard drive. Quantex offers an upgrade to a 10GB hard drive for an extra $100. And the notebook's memory and hard drive are both user-upgradable by simply removing the covers located on the underside of the unit.

Performance aside, the I-1511's show-stopping feature is its panoramic 15.1-inch display. This panel delivers even brightness and contrast across the entire viewable area, and we didn't see a single bad pixel. Quantex's dead-pixel policy is addressed on a case-by-case basis, but generally, 10 bad pixels will get you a replacement LCD.

The chassis of this notebook, which measures 2x12.75x10.25 inches (HWD), is designed so that the top LCD portion is larger than the bottom portion, resulting in a slight overhang. Quantex says it used this design tactic to avoid adding weight to the unit. It worked: With a travel weight of 8.4 pounds, the I-1511 is among the lightest notebooks we've seen with a 15.1-inch LCD. And its footprint is no larger than similarly configured systems with the same size display.

Touch-typists will be pleased with this notebook's comfortable keyboard layout, sporting a full-size 87-key keyboard, dedicated cursor-control keys, a roomy 3.5-inch wrist rest, and a 3mm key travel. The touch pad is slightly off-center, which lessens the chance that you'll inadvertently hit it with the heel of your palm and send the cursor flying to the remote territories of that big screen.

The front edge of the case houses the two bays. The left bay can accept the combination 1.44MB floppy drive/DVD-ROM drive as well as a second battery, a $129 option. The right bay is the battery bay. The I-1511 lasted 3 hours and 2 minutes on the BatteryMark 2.0 test—this is a respectable time for a desktop replacement notebook.

As you'd expect with a desktop-replacement notebook, the I-1511 comes with a full suite of ports, including serial, parallel, PS/2, VGA, port-replicator, and USB ports. There are also one Type III or two Type II CardBus- and Zoomed Video-enabled PC Card slots. For audio, the I-1511 comes with headphone, microphone, and audio-out jacks, and a volume-control dial. Two stereo speakers placed at the side of the unit yield bass-deficient audio that tends to break into static at higher volumes.

The unit comes with Microsoft Office 97 Small Business Edition. The standard warranty is three years for the processor and the memory, and one year on parts and labor. An additional two years on parts and labor costs $179.

The I-1511 offers many of the top-end features that you should expect from a high-end desktop-replacement notebook. It's lighter than the average notebook of this class, however, and comes through with great components and performance at a tempting price that puts it above its competitors. ▼

SYSTEM ..... Quantex I-1511
COMPANY ..... Quantex Microsystems
Somerset, NJ; 800-836-0566, 732-563-4166
www.quantex.com
AS TESTED ..... 400MHz Mobile Pentium II; 128MB SDRAM; 256K pipeline-burst L2 cache; Intel 430TX chip set; Phoenix BIOS; 8.1GB IBM Deskstar hard drive; combination 1.44MB floppy and 2x DVD-ROM drive; ATI Rage Pro graphics chip set with 8MB SDRAM; 15.1-inch XGA active-matrix LCD; ESS 3D Wavetable Surround Sound audio chip set; built-in stereo speakers; integrated V.90 modem; lithium-ion battery; port replicator with floppy, parallel, serial, PS/2, and VGA ports; Fast IR port; one Type III or two Type II CardBus-and Zoomed Video-capable PC Card slots; Kensington lock slot; volume wheel; headphone, microphone, and audio-out jacks; one USB port; touch pad; Windows 98; Microsoft Office 97 Small Business Edition
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The **Quantex I-1511** fuses a 400MHz Pentium II CPU with great performance and a 15.1-inch LCD—for only $3,099.

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EXP DVD TRAVELER PLUS

Get a DVD Face-Lift

Users shopping for a new notebook jam-packed with the latest technology may be willing to invest an extra $200 for an internal DVD drive and an MPEG decoder card. But if your laptop's showing its age a little, there's no need to replace it just so you can enjoy DVD capabilities. Instead, you can update your system with the $599-estimated DVD Traveler Plus from EXP Computer.

The price seems steep, but when compared with the cost of a new system, it begins to look more reasonable. Provided your portable has at least a 133MHz MMX Pentium processor, 16MB of RAM, and two PC Card slots (one of which must be Zoomed Video-compliant), the Traveler Plus is a viable option. You might also need a little patience installing updated drivers, however.

The drive weighs 1.3 pounds and measures 0.75x5.5x6.5 (HWD) inches—the most compact unit we've seen to date. The Traveler Plus connects to the notebook via a PC Card and draws power from either an included AC adapter or through the PC Card interface.

Setting up the drive itself was in most respects a cinch, with the Windows Plug and Play utility prompting us to load the proper drivers from the provided floppy disk. After we installed the drive, we kicked back and observed some impressive data-transfer speeds. On the CD-ROM WinMark 99 test, the Traveler Plus outpaced several onboard notebook DVD-ROM drives we've recently tested, with an average score of 888.



The DVD Traveler Plus' installation is not simple, but it wins kudos for its performance.

The Traveler Plus comes with a Margi MPEG-2 decoder card, which requires a Zoomed Video-enabled PC Card slot. Margi's-DVD-To-Go companion software provides a standard user-friendly dashboard interface with fast-forward, rewind, slow-motion, and freeze-frame buttons. It also furnishes a host of other controls, letting you jump by chapter, specify subtitle language, and choose from multiple camera-angle tracks when available.

We ran into compatibility problems when using the Margi card, however. On three out of four test notebooks, a hardware or software conflict prevented us from watching DVD movies, even when we were able to read data from the drive itself. Checking the EXP Web site revealed that our notebook's Video Port Manager driver was outdated; EXP advised that we contact either the manufacturer of the display adapter or of the notebook itself. We did successfully install the entire package on one relatively new notebook and observed impressive full-motion video with good flesh tones, deep blacks, and fairly smooth motion.

If the price of the DVD Traveler isn't too dear for you, you still might have to contend with driver issues. But if you can handle these hurdles, solid DVD video performance will be your reward.

—Asa Somers

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IOMEGA CLIK PC CARD DRIVE

You Can Take It With You

Iomega Corp.'s Clik line of 40MB removable-storage products has been available for use in handheld PCs and digital cameras for some time. Now the company has released a new Clik device that implants the disks into a standard Type II PC Card.

The Clik PC Card Drive accepts removable Clik disks, which are about the size of a matchbook. When one 40MB disk is full, users can simply eject it and insert a new disk, much like they would a floppy. This simple, no-connections-necessary storage medium is especially suitable for users of ultraportable notebooks, many of which don't come with an onboard floppy drive. The Clik is also great for those who use two-spindle notebooks but don't want to pack a floppy drive as well as a CD-ROM drive.

The $199.95-estimated PC Card Drive ships with an installation CD, one disk, and a carrying case. Additional disks are available for as little as $9.99 each when bought in a 10-pack.

Installation of the device is easy and straightforward. We transferred the drivers and the software from the CD in about 5 minutes, and the drive was ready for use.

Iomega says the Clik drive can achieve a maximum transfer rate of 620Kbps. In tests, we transferred a 20MB folder in less than 1 minute, a rate that's faster than a floppy's.



Iomega's Clik drive fits in a notebook's Type II PC Card slot and can store up to 40MB of data.

The drive's QuikSync software is a great backup tool that automatically makes copies of designated files. QuikSync leads you through a setup process that lets you designate which folders to monitor. The files in that folder are then scanned at user-set intervals, and any detected changes are updated to the Clik disk. QuikSync also makes a file copy every time you save, a process that can be set to either overwrite previous versions or store separate versions of a file.

The software lets you hot-swap the drive. What's more, it can even be used for on-the-fly data storage in notebooks without the software installed, although you'll have to restart your notebook after ejecting the device, and the auto-backup program that comes with the drive will be unavailable.

Note that the disks themselves are delicate, and Iomega says they shouldn't be left in the drive when it's not in use because heat and radiation could corrupt the stored information. The company also warns that pressing down too hard when writing on the disk labels could cause damage. We didn't experience any problems with our disks, however.

The Clik PC Card Drive is a simple and convenient file-transfer and backup system for notebook users, and it could be especially useful to those who don't want to carry an external floppy drive when they travel. But if you're particularly concerned about the durability of your storage media, you might want to look elsewhere.

—Jon Halpin

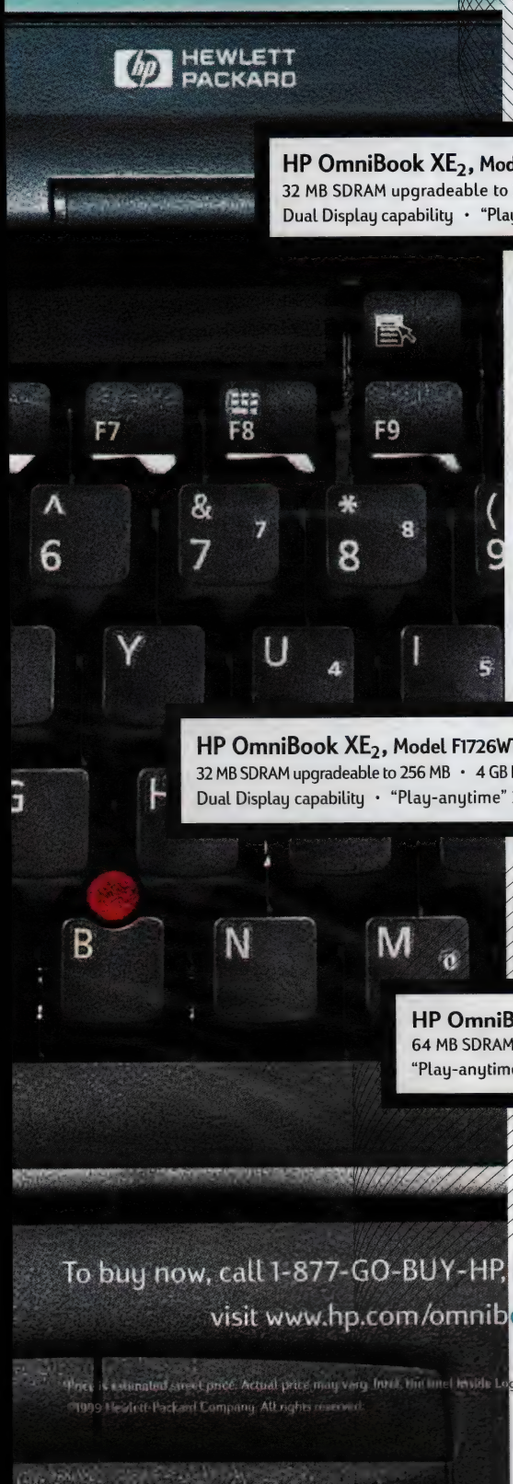
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Dual Display capability • "Play-anytime" 24x max CD-ROM • 56 Kbps v.90 modem • 3.5" floppy drive

$1,499*

HP OmniBook XE$_2$, Model F1724WT 333 MHz Mobile Intel Celeron processor
32 MB SDRAM upgradeable to 256 MB • 4 GB HD • 12.1" SVGA active matrix display • Choice of Windows 95/98
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HP OmniBook XE$_2$, Model F1726WT 300PE MHz Mobile Intel Pentium® II processor
32 MB SDRAM upgradeable to 256 MB • 4 GB HD • 12.1" SVGA active matrix display • Choice of Windows 95/98
Dual Display capability • "Play-anytime" 24x max CD-ROM • 56 Kbps v.90 modem • 3.5" floppy drive

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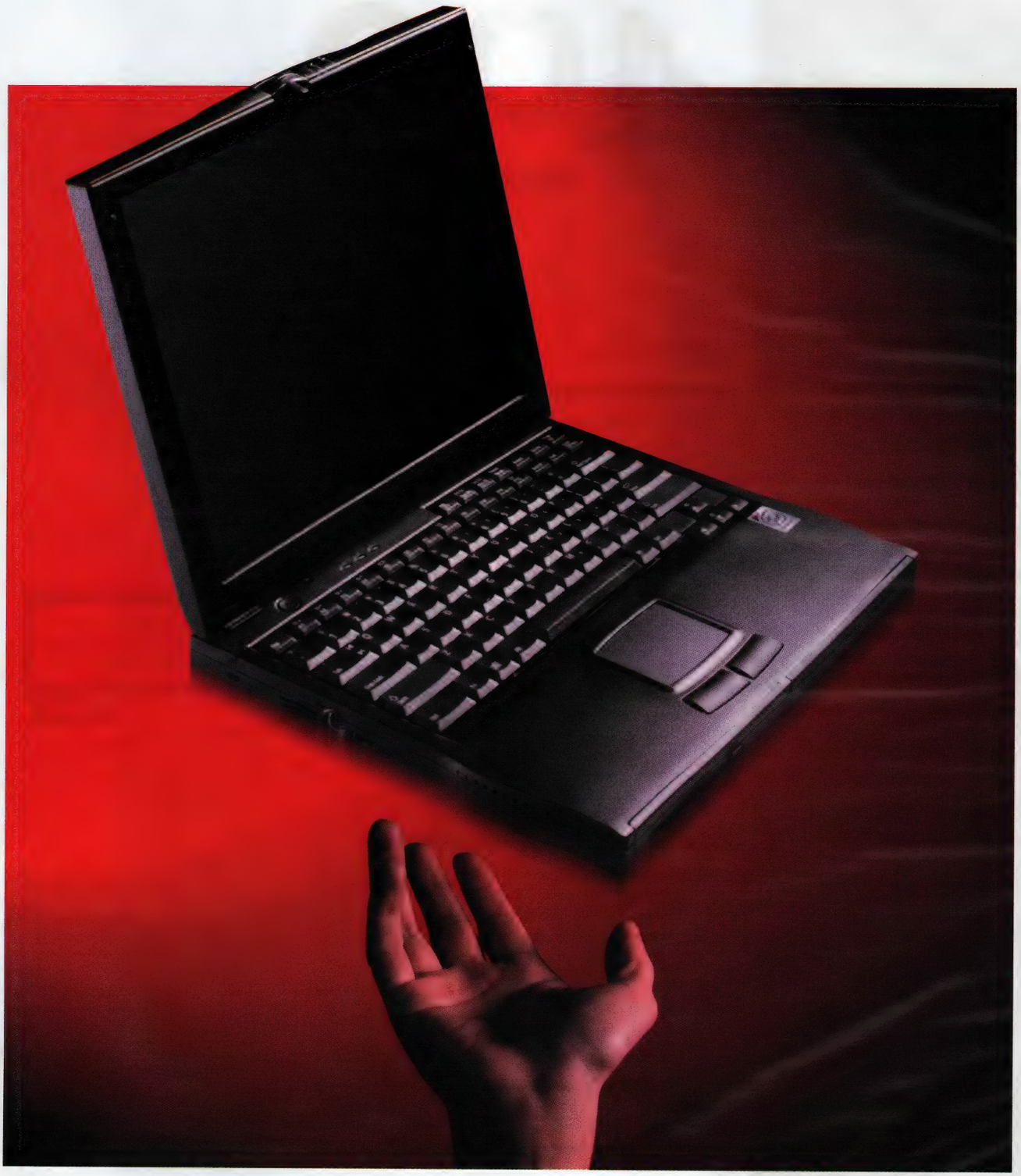


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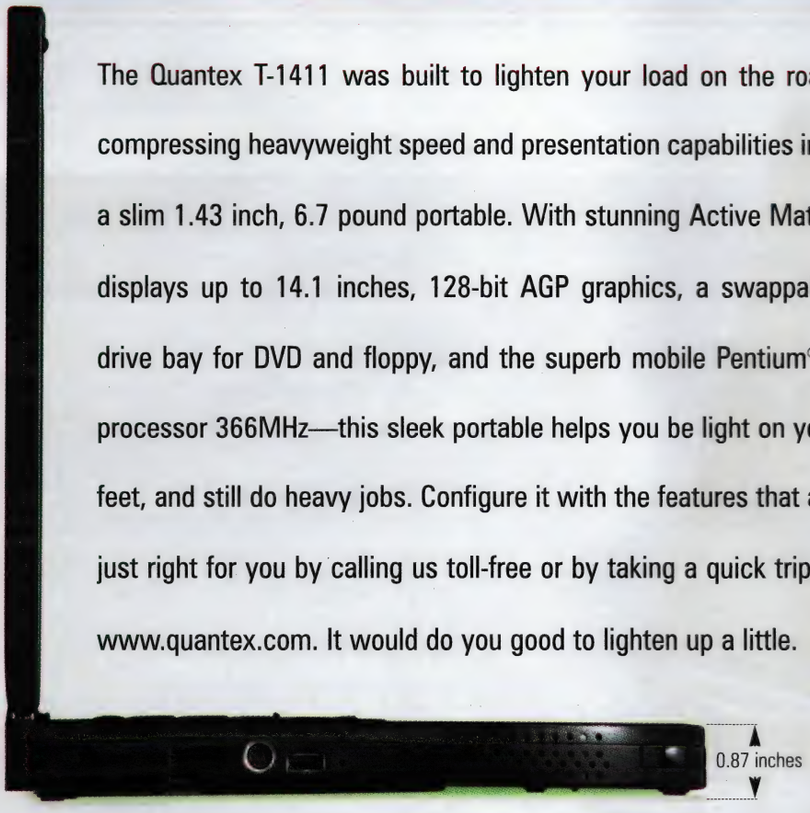


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- Long-Lasting Lithium Ion Battery...add $129
- PCMCIA Network Interface Card...add $129
- Quantex Deluxe Carrying Case...add $89
- Upgrade from 32MB to 64MB SDRAM...add $99
- Upgrade from 64MB to 128MB SDRAM...add $149
- Toshiba PDR-M1 Digital Camera...add $399
- Targus Defcon1 Security Lock...add $69
- Canon BJC-80 Portable Printer...add $299

T-SERIES "MOBILE WARRIOR" NOTEBOOK

Common Features: ✔ 256K Performance Enhanced On-Die Cache ✔ 3.5" Modular Floppy Drive ✔ Smart Lithium Ion Battery ✔ USB, Fast IR Ports ✔ Integrated 16-bit Stereo Sound, Speakers ✔ 3-Year Limited Warranty ✔ 1-Year Parts and Labor Limited Warranty

Quantex T-1411

- Intel® Pentium® II Processor 366MHz
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- 14.1" XGA Active Matrix Display
- 128MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- Modular 4x Max Variable Speed DVD-ROM Drive
- 56K V.90 Fax/Modem*
- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- Quantex Carrying Case
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- *New* Microsoft Office 2000 SBE

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Business lease:$90/Mo., 36 Mos. $0 Money Down

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Quantex T-1401

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- 64MB SDRAM Memory
- 6GB Ultra ATA Hard Drive
- Modular 24x Max Variable Speed CD-ROM Drive
- PCMCIA 56K Fax/Modem*
- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- Quantex Carrying Case
- MS Windows NT Workstation 4.0
- *Optional Internal Zip Drive, add $149*

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INTRODUCING

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- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- Quantex Carrying Case
- MS Windows 98
- *New* Corel WordPerfect Office 2000
- *Optional Targus Defcon Security Lock, add $69*

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Q-QUOTE NUMBER: csn08a03

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- 56K V.90 Fax/Modem*
- Modular 24x Max Variable Speed CD-ROM Drive
- NeoMagic NMG5 128-bit AGP Video
- Integrated Personal Touchpad
- MS Windows 98
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(Back of Quantex Mini-Docking Station shown)

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- Upgrade from 6GB to 8GB Hard Drive...add $159
- Upgrade from 6GB to 10GB Hard Drive...add $249
- Targus Defcon1 Security Lock...add $69
- Canon BJC-80 Portable Printer...add $299

I-SERIES "DESKTOP REPLACEMENT" NOTEBOOK

Common Features: ✔ 256K Performance Enhanced On-Die Cache ✔ ESS 3D Wavetable Sound & Speakers ✔ Smart Lithium Ion Battery ✔ TV-Out ✔ USB and Fast IR Ports ✔ Integrated Personal Touchpad ✔ 3-Year Limited Warranty ✔ 1 year parts and labor limited warranty ✔ 24/7 Toll-Free Technical Support

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Business lease:$109/Mo., 36 Mos. $0 Money Down
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Quantex I-1510

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Business lease:$94/Mo., 36 Mos. $0 Money Down
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64MB SDRAM Memory
6GB Ultra ATA Hard Drive
56K V.90 Fax/Modem*
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ATI Rage Lt Pro 3D AGP Video w/8MB
Quantex Deluxe Carrying Case
MS Windows 98
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$2399

Business lease:$86/Mo., 36 Mos. $0 Money Down
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ATI Rage Lt Pro 3D AGP Video w/8MB
Quantex Deluxe Carrying Case
MS Windows 98
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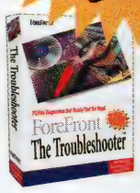
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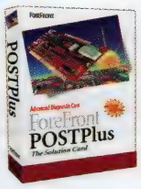
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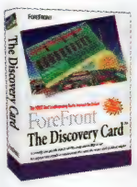
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DESKPRO 6000 6233,6300(SDE)	55	105	145
DESKPRO XL 6150/6200 (DIM)	45	105	179
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PROLIANT 2500,2500R (DIMM)	45	119	179
PROLIANT 486 SERIES	45		
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DIMENSION XPS H233,266	54	99	
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OPTIPLX GXI,GX PRO200 (DIMM)	62	105	169
OPTIPLEX GL,GM,GMT, (ED)	51	95	
OPTIPLX GS,GXL,GXMT(ED)	51	95	
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E-1000,E-3000,E-3100(SD)	55	105	149
E-5000-2266,2300 (SDE)	65	105	149
HEWLETT PACKARD	**32M**	**64M**	**128M**
BRIO 8000,8100 SERIES (ED)	55	105	
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KAYAK XU/XW PII 233,266,300**(SDE)**	55	105	169
PAVILLION 5010-7170 ED	55	75	
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NETSERVER LH PRO PRO/200	55	99	169
NETSRVR LX PRO/LXE 6/166,6/200	55	99	169
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VECTRA VL4 5/150,5/166	55	105	
VECTRA XA 6/180, 6/200	55	105	
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PC 330 6576; 700,730 750 SERIES	49	105	
PC 300 XL SERVER	55	95	169
PC SERVER PRO 330 PRO 325;180/200	55	95	169
INTELLISTATION Z PRO 2D,3D	62	95	169
PS/1 ADVISOR/ESSENTIAL/WILLOW	62		
PS/VALUEPOINT486 (ALL):	45	79	
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VETIX EL 1000N,2000N & LXI	49	95	169
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POWERDIGM XLI & XSU SERIES	49	95	169
NEC TECHNOLOGY	**32M**	**64M**	**128M**
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(Server Processor Modules Available)

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DELL POWEREDGE SERVER 6300		295	495
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IBM NET FINITY 3000/3500	99	245	CALL
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COMPAQ PROLIANT 3000	119	221	495
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GATEWAY ALR SERVER 9000 SERIES	119	285	495
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MICRON NET FRAME 3101	99	195	495
MICRON NET FRAME 6200	119	285	495

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DELL PRECISION WKSTN 400 PII 266-300		219	CALL
MICRON EVEREST AND EVEREST PRO	95	219	CALL
COMPAQ PROF WK AP400/AP 500	109	239	559

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SDRAM 32x72 -8ns 3.3v ecc registered	256MB	395
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SDRAM 8x72 - 8ns 3.3v ecc	64MB	72
SDRAM 32x64 -8ns 3.3v	256MB	279
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SDRAM 8x64 -8ns 3.3v	64MB	45

SDRAM LX-CHIPSET

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SDRAM 8x72 - 10ns 3.3v ecc	64MB	69
SDRAM 32x64 -10ns 3.3v	256MB	265
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32X64-60 EDO 3.3v UBF	(256MB)	385
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72-Pin EDO Non Parity Simms

SIMM 32x32-60 EDO	(128MB)	185
SIMM 16X32-60 EDO H	(64MB)	78
SIMM 8X32-60 EDO	(32MB)	51
SIMM 4X32-60 EDO	(16MB)	29
SIMM 2X32-60 EDO	(8MB)	14

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SIMM 32x32-60	(128MB)	225
SIMM 16X32-60 H	(64MB)	84
SIMM 8X32-60	(32MB)	51
SIMM 4X32-60	(16MB)	26
SIMM 2X32-60	(8MB)	17

72-Pin Parity Simms

Parity:

SIMM 32x36-60	(128MB)	255
SIMM 16x36-60 H	(64MB)	131
SIMM 8X36-60	(32MB)	70
SIMM 8X36-70	(32MB)	70
SIMM 4X36-60	(16MB)	35
SIMM 4X36-70	(16MB)	35
SIMM 2X36-60	(8MB)	18
SIMM 2X36-70	(8MB)	18

H=High Density L=Low Density

30-Pin Simms

SIMM 16X9-60 (9-CHIP)	(16MB)	35
SIMM 4X9-60 (9-CHIP)	(4MB)	17
SIMM 4X9-70 (9-CHIP)	(4MB)	16
SIMM 4X9-80 (9-CHIP)	(4MB)	14

NON Parity:

SIMM 16X8-60 (9-CHIP)	(16MB)	31
SIMM 16X8-70 (9-CHIP)	(16MB)	29
SIMM 4X8-60 (9-CHIP)	(4MB)	15
SIMM 4X8-70 (9-CHIP)	(4MB)	13

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HL-4/4PS/4V/4VE	75		115
HL-6/6T/6V	65		99
HL-630/631/641/645		55(1.5MB)	
HL-720/730		45(1.5MB)	
HL-660/960/1260	42(4MB)	65 (8MB)	
LASER/FAX MFC 3900ML			55(1.5MB)
4000ML/4500ML/5000ML LASER UPGRADE/CALL FOR			
MEM/FAX SIDEFAX 4550/6550/755065			85

Canon	2MB	3MB	4MB
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LBP 4SX	75		115
LBP 811/BT	45		65
LBP-8SX	79		115
LBP-4/LITE PLUS	139		
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5000, 5200	55	95	
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EPL 6000	85	115	
EPL 7000	69		
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HEWLETT PACKARD	**8MB**	**16MB**	**32MB**
HP 4000/5000N NEW		59	155
HP 4, 4M, 4SI	49	59	
HP 4P, 4MP, HP4V,5M,5N,5P,5SI	29	55	
HEWLETT PACKARD	**2MB**	**4MB**	**8MB**
HP4L, ML (1MEG ONLY)	$39		
HP 5L,5L-FS	35	43	89
HP550,C, 560,C (256K ONLY)	$29		
HPIIID	45	65	
HPIIIP,IIP	45	65	
PAINTJET XL300		65	85
IBM	**2MB**	**35MB**	**4MB**
4019	69	95	
4029/4037	39		55
4039/4079			45
LEXMARK	**8MB**	**16MB**	**32MB**
OPTRAL/LX/LXN/NR/RX	25	45	89
WIN WRITER 200, 400, 600	(4MB $69.00)		
OKIDATA	**2MB**	**4MB**	
OKI 400	52		
OKI 400E/410E	69	109	
OKI 600E/610E	65	85 (5MG)	149 (17MG)
OKI 830/840/840/850	79	CALL	
OKI 810E (NEW)		79	
Panasonic	**2MB**	**4MB**	**8MB**
KX 4410/4430	55	79	
KX 4420/4450I	65	99	
KX 4400/5400/4401	49	85	
KX 4440/5410	69	109	
KX-P 4450		85 (1MB)	
SP100	49	85	
KX-6500 (NEW)		55	
SHARP		**2MB**	**4MB**
JX9400/9600/9860/9700E		65	95
TEXAS INSTRUMENTS	**2MB**	**3MB**	**4MB**
MICROLASER SERIES	78	117	156
MICROLASER TURBO			89
MICROWRITER SERIES	75		
ML PWRPRO/12,ML PRO8	55 (4MB)		95 (8MB)

NOTEBOOK MEMORY

ACER	16M	32M	64M
730,,760C,760CX,780CX			
782,784,786,787,788I	75		
NUOVO 971,972,970DX,970	49	91	
PRO 950,,954,955,956,957	59	99	
LIGHT 350P ,356,358,359,361	59	99	
LIGHT MULTIMD 382,383,384	59	99	
AST	**16M**	**32M**	**64M**
ASCENTIA A 41, A42,A70	45	85	121
ASCENTIA J SERIES (KIT)	55	102	
ASCENTIA P SERIES (NEW)	59	102	
ASCENTIA 900, 910N,950N	65		
ASCENTIA 800, 810N	65		
Canon	**16M**	**32M**	**64M**
NOTEJET 486C (SN100)			
NOTEJET 486 ISN22/SN32			
NOTEJET II/III CX	79		
IINNOVABK 1100T	65	112	
IINNOVABK 10C/150C/175C			
IINNOVABK 350,360,475	75		
IINNOVABK 480, 460	75		
IINNOVA 486NX			
COMPAQ	**16M**	**32M**	**64M**
ARMADA 6500, 7400, 7800 (NEW)		89	115
ARMADA 1100,1500,7700 SER	45	89	115
ARMADA 4100	45	89	115
CONCERTO 425/433	79		
CONTURA 4/25,C,CX	85		
CONTURA 400C,410C,420	85	(129 24MG)	
CONTURA AERO 4/33C	89		
LTE ELITE 4/25C, 4/75/C	71		
LTE 5000,5100,5200,5300,540	65	85	116
PRESARIO 1010, 1020,1070,	65	85	
PRESARIO 1210, 1610,1680	95	95	116
D&LL	**16M**	**32M**	**64M**
INSPIRON 7000 SERIES	49	78	114
INSPIRON 3000 M200, M233	49	78	114
LATITUDE CP M166T,M233XT,	79	99	
LATITUDE LM P100SD,P133S	79	99	
LATITUDE LX475D,4100DT	89		
LATITUDE 433/C, CX, 425	79		
LATITUDE XP 4100CX,450/CX	89		
LATITUDE 433M, MX, MC,	75		
EPSON	**16M**	**32M**	**64M**
ACTION NOTE 500C		(4MB $35.00)	
ACTION NOTE 650/660C	79		
ACTION NOTE 880,885,910	89		
FUJITSU	**16M**	**32M**	**64M**
LIFEBOOK 500,600,700 TX SER	59	85	
LIFEBOOK 400,500,600 SER	65	85	
MILAN,MONTECARLO,MONT	65	95	119
HEWLETT PACKARD	**16M**	**32M**	**64M**
COLORBOOK	95		
HANDBOOK	89		
LIBERTY	89		
SOLO 3100 LS (NEW)	49	95	135
SOLO S90,S120,V75)	55	99	
SOLO 2100, 2200 (NEW)	89	109	
SOLO 2300 (NEW)	65	89	109
SOLO 9100 SERIES (NEW)	65	89	109
HEWLETT PACKARD	**16M**	**32M**	**64M**
OMNIBOOK 2000	62	89	129
OMNIBOOK 4000 C/CT	62	89	
OMNIBOOK 5000,5500 CTS	62	89	129
OMNIBOOK 5700TX (MMX)	62	89	129
HITACHI	**16M**	**32M**	**64M**
C-SERIES NOTEBOOK	65	99	
E SERIES	65	102	
M SERIES	65	102	
M-X MMX SERIES NOTEBOOK	65	102	
VISIONBK PLUS 4140,4150,4360	75	102	
VISIONBK PRO 7340,7360,7560/40	75	102	

IBM	16M	32M	64M
THINKPAD 340			
THINKPAD 350, 350C	69		
THINKPAD 355, 355C,360CS	79		
THINKPAD 365C,CS,CD,E,ED			
THINKPAD 365 X,380,385D	45	79	
THINKPAD 510/CS,(510 8MG MAX)	49		
THINKPAD 560 (NEW)	45	79	
THINKPAD 560E	45	79	109
THINKPAD 700/C, 720/C			
THINKPAD 701 BUTTERFLY	45		
THINKPAD 750/755 CS DX	79		145
THINKPAD 760C (NEW)	79	105	
THINKPAD 760 E,EL,ELD	55	85	109
THINKPAD 770 (SD)	59	85	109
MICRON	**16M**	**32M**	**64M**
MILLENNIUM TRANSPORT	45	109	
MILLENIUM TRANSPORT XPE	45	109	
MILLENIUM TRANSPORT MRX P	45	109	
MIDWEST MICRO	**16M**		
ELITE SNDBOOK 486/486 I I	85		
ELITE SNDBOOK PLUS	85		
NEC	**16M**	**32M**	**64M**
VERSA E/MV/P	55	119	
VERSA S, 2000, 2200C	45		
VERSA 2400,2405,2435	45		
VERSA 2600	49	95	115
VERSA 4000	55	85	
VERSA 6000H,6030H	55	85	
VERSA 6050MH,MHX P150	55	85	105
VERSA 6200MX P166 MMX	49	75	109
SHARP	**16M**	**32M**	**64M**
3010,3050	69		
3020,3060 PENTIUM	69		
3030, 3040, 3070	75	119	
7700/7750/B150,8650,8650	79		
8700,8800,8900	85		
9000/9030/9020/9050	79	119	
9040/9070/9080	69	119	
WIDENOTE	49	75	
SONY	**16M**	**32M**	**64M**
VAIO PCG-705C,707C,717C,719C	45	65	129
TEXAS INSTRUMENTS	**16M**	**32M**	**64M**
TI 4000E, 4000M	279		
TI 5000,5100,5200,5300	89		
TI 6020,6030,6050,6160	75	95	
TI EXTENSA 455 SERIES (NEW)	79		
TI EXTENSA 510/515/550/56059	89		
TI EXTENSA 600,650,660SER49	99		
TOSHIBA	**32M**	**48M**	**64M** **128M**
TOSHIBA 8000 (NEW)			149 CALL
TOSHIBA 100C/200/400/610	79		
710CD/720CDS/730/740	79		169 405
PROTEGE 650 CT,660 CDT	95		179
SATELLITE 225,440,460	69	99	129
TECRA 500/550/650/660	89	129	265
T1900,1900CT,1950,1960	95		
4500/4700/4800/4900	79	99	
T2100, T2150CDS/CDT	75	85 (24MG)	
PROTEGE 2400/3400/3600	69		
WINBOOK	**16M**	**32M**	**64M**
WINBOOK XL (NEW)	49	79	129
WINBOOK XP	59	99	
WINBOOK XP 5 (NEW)		99	
WINBOOK FX (NEW)	59	99	
ZENITH	**16M**	**32M**	**64M**
Z-STAR EX	49		
Z-NOTE FLEX/ES/EX/GT	49		
Z-NOTE MX	55		
Z-NOTE 6000	59	119	
Z-NOTE 6200	79	115	

NOTEBOOK HARD DRIVES

	2GB	4GB	5GB
AST			
ASCENTIA 800,810,ADVANTAGE NB,BRAVO NB	195	281	315
TOSHIBA			
SATELLITE 300CDS/CDT, 305CDS	195	281	315
SATELLITE 310CDS, 310CDT, 315CDS, 315CDT	195	281	315
T2400CS,T2400CT,2450CS,2450CT	195	281	315
T4500,4600,4700,4800,4900	195	281	315
PROTEGE T3400,T3400CT	195	281	315
TECRA 520CDT, 530CDT	195	281	315
TECRA 750CDT, 750CDTNT, 750CDM, 750DVD	195	281	315
TECRA 780CDM, 780CDMNT, 780DVD	195	281	315
COMPAQ			
CONCERTO 4/25, 4/33	195	281	315
CONTURA 4/25, 4/25CX, 4/25C	195	281	315
CONTURA 3/20, 3/25, 3/25C	195	281	315
CONTURA400,410,420,430 SERIES	195	281	315
CONTURA AERO 4/25, 4/33	195	281	315
LTE ELITE 4/50CX,4/75C,4/75CX	195	281	315
ARMADA 1100,1120,1125	195	281	315
ARMADA 1500 SERIES	195	281	315
PRESARIO 1010,1020,1030,1080,1065,1070,1075,1080	195	281	315
PRESARIO 1207, 1210, 1610, 1615, 1620	195	281	315
PRESARIO 1200 SERIES:1230, 1232	195	281	315
PRESARIO 1200 SERIES:1215	195	281	315
PRESARIO 1200 SERIES:1220, 1220ES	195	281	315
PRESARIO 1600 SERIES:1625, 1640	195	281	315
PRESARIO 1600 SERIES:1650, 1655	195	281	315
PRESARIO 1600 SERIES:1626	195	281	315
PRESARIO 1710 SERIES:1710SB	195	281	315
PRESARIO 1600 SERIES:1621, 1622, 1680, 168	195	281	315
CTX			
EZBOOK 5X86 SERIES	195	281	315
EZBOOK 700 SERIES	195	281	315
EZ 660CDT,EZ665CDT,EZ660CDT (PENT)	195	281	315
DEC			
HINOTE VP 520/120,525/120,535/133,545/150MMX	195	281	315
EPSON			
ACTIONNOTE 650, 650C, 680, 660C, 660CX	195	281	315
IBM			
THINKPAD 500, 510S	195	281	315
SHARP			
PC 8700,8800,8900	195	281	315
PC9000,9030	195	281	315
PC3010,3050	195	281	315
PC9040,9070	195	281	315
PC 9080 P133	195	281	315
TEXAS INSTRUMENTS			
TRAVELMATE 4000, 4000E	195	281	315
TRAVELMATE 4000M	195	281	315
TRAVELMATE 5000, 5100, 5200	195	281	315
TRAVELMATE 6020 P120 6030 P133, 6050 P150	195	281	315
TRAVELMATE 7060, 7063NT P166MMX	195	281	315
EXTENSA 600, 600CD, 605CD P120	195	281	315
EXTENSA 650, 650CD, 650CDT P133	195	281	315
EXTENSA 900, 900T, 900CDT P133	195	281	315
NEC			
VERSA 2400;CD, 2405;CD	195	281	315
VERSA 2600CD,2600CDX,2650CDT,2650CDTXP,2650CDT	195	281	315
SHARP			
PC7700.7750	195	281	315
WINBOOK			
WINBOOK "XP, FX, XP5	195	281	315

Check these guys out, I think they've got some great deals!

Motherboards

INTEL

INTEL SEATTLE — SE440BX — $125

New 440BX 100MHZ/AGP PII/233 450MHZ ATX 4XPCI, 2XISA, IAGP 3X168 PN DIM 384MB MAX



PII 266	PIII300	PII 333
$278	$283	$287
PII 350	PII 400	PII 450
$325	$418	$549

INTEL NIGHTSHADE — $559

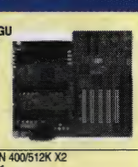
New 440BX 100MHZ/AGP DUAL PH 233-450MHZ 4XPCI, 2XSIA, IAGP 4X168-PN DIM 1GB MAX On board Adaptech UW SCSI, On board Video w/2MB sgram, On board 10/100 Network card



PII 333	PII 350	PII 400
$742	$786	$881
PII 450	PII 400 X2	PII 450 X2
$1010	$1174	$1435

SUPER MICRO — S2DGU — $497

DUAL PENT II XEON 400 MHZ 440GX 100MHZ/AGP 5XPCI, 2X15A, IAGP 4X168-PN DIM 2GB MAX Adaptec Ultra 2 wide SCSI (80 MB sec)



XEON 400/512K X1	XEON 400/512K X2
$1434	$2371
XEON 450/512K X1	XEON 450/512K X2
$CALL	$CALL

SUPERMICRO

SUPER MICRO — P6SBU — $338

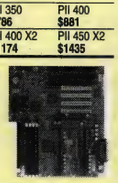
PentII 233-400Mhz 440BX 100MHZ/AGP 4XPCI, 2XISA, IAGP 4X168-PN DIM 1GBMAX Adeptec Ultra 2 Wide Wide SCSI 80 MB's



PII 266	PII 300	PII 333
$494	$499	$496
PII 350	PII 400	PII 450
$546	$615	$809

SUPER MICRO — P6DBS — $399

Dual Pent II 233-400 Mhz 460BX 100MHZ/AGP 4X168-PN DIM 1GB MAX Adaptec 7895 Dual UIVV SCSI 80 MB'S



PII 333	PII 350	PII 400
$659	$686	$775
PII450	PII400 X2	PII450 X2
$949	$1073	$1421

SUPER MICRO — P6DGU — $473

DUAL PENTII 233-400MHZ 440GX 100MHZ/AGP 5XPCI, 2XISA, IAGP 4X168-PN DIM 2GB MAX Adeptec Ultra 2 Wide SCSI 80Mb's



PII 333	PII 350	PII 400
$655	$682	$771
PII 450	PII 400 X2	PII 450 X2
$945	$1069	$1417

GIGABYTE

GIGABYTE — GA-5AA/GA-5AX — $79 — $79

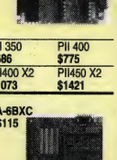
AT/ATX Super Socket 7 ALI 100/120 Mhz/AGP 3XPCI, 2XISA, 1AGP 3X168-PN DIM, 768 MB MAX, Intel, AMD K6-3, Cyrix, IDT



AMD K6II-350	K6III-400
$191	$385

GIGABYTE — GA-686BXE/GA-6BXC — $131 — $115

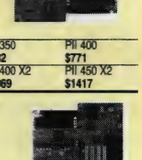
PentII 233-450Mhz 440BX 100/133MHZ/AGP 5XPCI, 2XISA, 1AGP 4X168-PN DIM, 1 GB MAX, 2nd Generation, 3 Pan Detection Ready Support Katmai



PII 266	PII 300	PII 333
$299	$319	$329
PII 350	PII 400	PII450
$357	$446	$619

GIGABYTE — GA-686BXDU — $435

Dual Pent II 233-450Mhz 440BX 100MHZ/AGP 4XPCI, 3XISA, IAGP 4X168-PN DIM 1GB MAX,

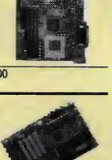


PII 333	PII 350	PII 400
$611	$645	$734
PII 450	PII 400x2	PII 450x2
$899	$1032	$1375

ASUS

ASUS — P2B — $145

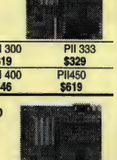
Pent II 233-450 Mhz 440BX 100MHZ/AGP 4XPCI, 3XISA IAGP 3X168-PN DIM 760MB MAX Ultra Dm/32 mb



PII 300	PII 333	PII 350
$325	$327	$355
PII 400	PII 450	
$444	$618	

ASUS — P2B-D — $293

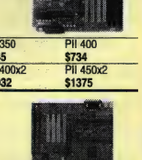
Dual Pent II 233-450 Mhz 440BX 100MHZ/AGP 4XPCI, 2XISA, IAGP 4X168-PN DIM 512MB MAX Ultra Dma/33



PII 300	PII 333	PII 350
$465	$475	$499
PII 400	PII 450	
$589	$759	

ASUS — P2B-DS — $471

Dual Pent II 233-450 Mhz 440BX 100MHZ/AGP 4XPCI, 2XISA, IAGP 4X168-PN DIM 512MB MAX Ultra SCSI



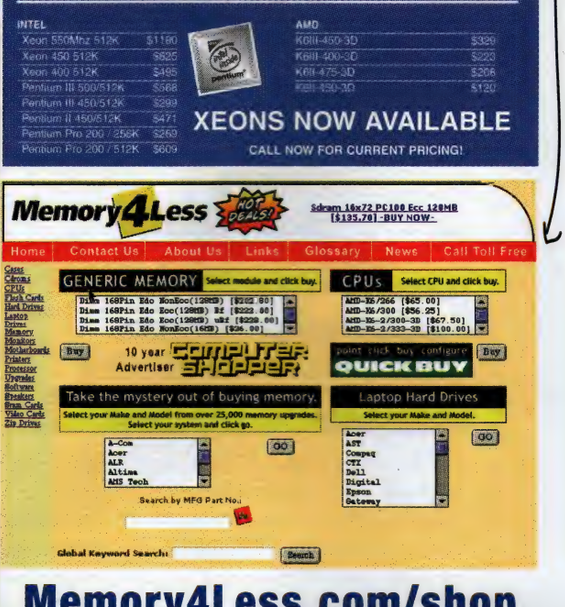
PII 350	PII 400	PII 450
$686	$775	$949
PII 400 x2	PII 450 x2	
$1073	$1421	

CPU UPGRADES

INTEL		AMD	
Xeon 550Mhz 512K	$1180	K6III-450-3D	$329
Xeon 450 512K	$625	K6III-400-3D	$223
Xeon 400 512K	$495	K6III-475-3D	$206
Pentium III 500/512K	$568	K6III-350-3D	$120
Pentium III 450/512K	$299		
Pentium II 450/512K	$471		
Pentium Pro 200 / 256K	$269		
Pentium Pro 200 / 512K	$609		

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ACER TRAVELMATE 330T

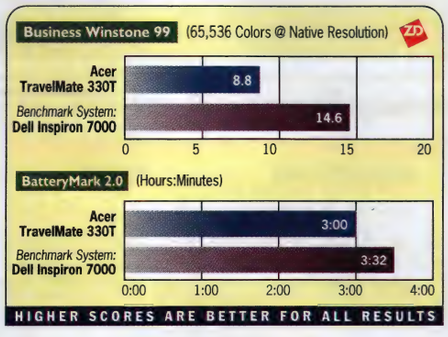
Traveling in Slimline Style

Acer's trim, full-featured ultraportable delivers great components and manageability for only $1,999.

BY DAN COSTA

Acer America Corp.'s TravelMate line of notebooks has always been marketed as more of a corporate workhorse than a stylish consumer show-horse. But all this could change with the new TravelMate 330T, a full-featured ultraportable model that earns high marks for both form and function. But like many of the units in the TravelMate's class, performance is not its strong suit.

The TravelMate 330 series belongs to the breed of thin and light notebooks: It has the width and length of a full-size notebook, 11.4x8.6 inches, but it is only 1 inch thick and weighs in at 4.1 pounds. The gun-metal-gray chassis is surprisingly sturdy for such a svelte system. That's due in part to its magnesium-alloy shell, which seems thicker than those that encase other slimlines like the Sharp Actius PC-A100 or the Sony VAIO 505 SuperSlim.



We tested the TravelMate 330T with a 300MHz Pentium II processor with 256K of integrated L2 cache, 32MB of SDRAM, a 4.8GB hard drive, and a 12.1-inch display. As configured, the system has an estimated price of $1,999.

Getting the TravelMate 330T out of the box and into gear is effortless. Acer includes a multilingual installation poster that walks you through the setup process and explains the purpose of indicator lights and function keys.



Although the TravelMate 330T adds style to become more consumer-friendly, it has corporate-manageability features.

The system's ample width enables Acer to build in a full-size keyboard, which is comfortable thanks to its 19mm pitch and 2.8mm key travel. The arrow keys are positioned in the familiar inverted-T layout found on desktop keyboards with eight cursor keys, and the Synaptics TouchPad is placed just left of the center of the palmrest. As a nice ease-of-use touch, TravelMate 330T includes a built-in scroll button for easy navigation of documents and Web pages.

The unit's 12.1-inch active-matrix display is brilliant at its native resolution of 800x600. And its color depth and brightness are far better than one would expect from a slimline notebook. This is partly because the TravelMate 330T uses a Trident 9525DVD graphics chip rigged with 2.5MB of video RAM. This chip set supports 3-D acceleration and provides hardware assistance for playing MPEG2/DVD videos. Even with only 32MB of memory, the system scored a respectable 84 on the Business Graphics WinMark 99. However, on our other tests, the TravelMate 330T did not fare so well.

On our Winstone 99 test, the TravelMate scored an 8.8, which is in line with scores of 300MHz MMX Pentium-based notebooks and falls far short of scores earned by 300MHz Pentium II-based units.

The relatively skimpy 32MB of SDRAM did not help the unit's performance. (We suspect this compromise was made to hit the sub-$2,000 price point.) Because the system has only two memory sockets, we recommend upgrading to a single $199 64MB module when you purchase the system. This will give you the memory you need now while leaving the other socket free for future expansion.

The TravelMate 330T makes up some ground by including a corporate-friendly software bundle. The system ships with a recovery CD and a copy of Intel LANDesk Client Manager. Acer also throws in a utility called Notebook Manager that enables you to modify your bootup sequence, passwords, power settings, and hardware configuration, as well as a connection cable for its IntelliSync Software.

Acer scores points by including a hot-pluggable external 1.44MB floppy/24x CD-ROM combo drive, unlike other vendors that sell the CD-ROM drive as an option. (The company also offers a floppy/DVD option for an additional $449.) The integrated floppy/CD-ROM unit scored a respectable 977 on our CD WinBench 99.

The TravelMate 330T also managed to last 3 hours on our BatteryMark 2.0 test, a good time for a notebook in this form factor. Other units in this class tend to last about 2.5 hours.

Unlike some ultralight systems, the TravelMate 330T doesn't skimp on I/O ports. The notebook comes with serial, parallel, PS/2, VGA, USB, and Fast IrDA ports built into the case. And that means you won't need to worry about leaving behind a port replicator when you leave the office. The system also ships with an integrated V.90-compliant modem.

The TravelMate doesn't include a productivity suite, which may not be a factor for corporate users whose IT departments provide apps. But small-business users and consumers will need a productivity suite, and purchasing a package such as Microsoft Office or Lotus SmartSuite separately could add $300 to the system's overall cost.

For business users who don't need top-notch performance but favor the thin-and-light form factor, the TravelMate 330T delivers a solid value. But if you're looking for great performance and a productivity suite, adding the needed RAM and software to achieve this goal raises the price significantly and diminishes value. ▼

PRODUCT ..... Acer TravelMate 330T
COMPANY ..... Acer America Corp.
San Jose, CA; 800-558-2237, 408-432-6200
www.shopacer.com
AS TESTED ..... 300MHz Pentium II; 32MB SDRAM; integrated 256K L2 cache; ALi chip set; 4.3GB EIDE hard drive; integrated 24x CD/1.44MB floppy combo drive; Trident 9525DVD graphics chip with 2.5MB VRAM; 12.1-inch active-matrix 800x600 display; ESS audio chip set; one speaker; V.90-compliant Lucent WinModem; lithium-ion battery; serial, parallel, PS/2, VGA, USB, Fast IrDA, mic-in, and audio-in/out ports; Type II PC Card slot with CardBus and Zoomed Video support; Portfolio case; Synaptics TouchPad with scroll button; Windows 98; Intel LANDesk Client Manager; additional software
SUPPORT ..... Live toll-free phone support, 24 hours daily (PT); one-year parts-and-labor warranty; one-year international-traveler warranty
SUITABILITY ..... For the mobile executive who is looking for an ultraportable-class notebook with a 12-inch LCD and doesn't require top-notch performance
MFR. EST. PRICE $1,999

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SECTION CONTINUES ON PAGE 202

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DIGITAL CAMERAS

MVC-FD91
$999



SONY DIGITAL MAVICA CAMERA

The Digital Mavica® camera is the only digital camera in the world to use a standard floppy disk for film. Designed for the serious photo enthusiast, this semi-pro model is loaded with top-of-the-line features, like MPEG audio/video capabilities, a 14X Optical Zoom lens, Optical SteadyShot® and special manual controls.

DSC-F55
$899



SONY CYBER-SHOT DIGITAL CAMERA

Thanks to its compact size and ease of use, the Sony Cyber-shot™ Digital Still camera makes a great companion for your Sony notebook computer. To quickly transfer images to your PC, simply take the Sony Memory Stick™ media from the Cyber-shot camera and plug it into your notebook's PC Card slot (Sony PC Card adapter required).

IC CHIP RECORDER AND PC GLASSTRON MONITOR

ICD-R100PC
$199.95



SONY VOICE FILE™ DIGITAL IC CHIP RECORDER

The Sony IC Chip Recorder captures every word with digital clarity—and links right to your Sony PC. This palm-sized device (just 85g.) provides a swift, effortless way to save, download and e-mail your audio messages. Highlights include: 2.5 hours of recording time; digital VOR for start-stop speech; and playback control for seamless editing.

PLM-S700
$2,599
as low as
$46.92 a month*
◊See advisories on back page



SONY PC GLASSTRON PERSONAL MONITOR

A big-screen display that's portable? The PC Glasstron™ monitor creates a virtual 30" high-resolution image—for your eyes only. It's head-mounted to offer you the most in mobility and privacy. And its built-in headphones make your multimedia experience even more amazing. Just plug it into your notebook and other video sources and let the games begin◊

MEMORY STICK IC RECORDING MEDIA



Introducing the next generation of digital data storage—Memory Stick Media. Smaller than a stick of gum but with five times the storage capacity (MSA-8A model) of a standard 3.5" floppy disk, Memory Stick Media is expected to become the new industry standard for storage and transfer media. Plus, it makes it even easier for you to transfer images, sounds, data and text between cameras, computers and more.

4 MB Memory Stick Media	Model: MSA-4A	Price: $29.99
8 MB Memory Stick Media	Model: MSA-8A	Price: $39.99
16 MB Memory Stick Media	Model: MSA-16A	Price: $79.99

VAIO 505 SUPERSLIM NOTEBOOK

So light, yet so powerful.

Only 3.5 lbs. and 1" thin, the Sony VAIO Z505 SuperSlim Pro Notebook is available with one of the largest displays in its class (12.1"). The Z505SX comes loaded with built-in ethernet, a Pentium® II processor, 128 MB RAM, Programmable Power Keys (PPK) and signature capture in a durable magnesium alloy case.

Z505SX $2,999.99

As low as $54.14 a month*

- **Mobile Intel® Pentium II processor 366 MHz**
- 128 MB RAM (expandable to 192 MB max.)
- **6.4 GB fixed hard drive**
- 1" thin; 3.5 lbs.
- Built-in Ethernet (10Base-T/100Base-TX)
- **12.1" XGA TFT Display**
- V.90 modem
- High-capacity Lithium-Ion battery
- Digital touch pad
- Bundled i.LINK Port Replicator and external floppy disk drive
- One type II PC Card slot with card bus support
- Memory Stick Media Slot
- Two USB ports
- Built-in stereo speakers

Z505S $2,499.99

As low as $45.12 a month*

- **Mobile Intel Celeron™ processor 333 MHz**
- 64 MB RAM (expandable to 192 MB max.)
- **6.4 GB fixed hard drive**
- 1" thin; 3.5 lbs.
- Built-in Ethernet (10Base-T/100Base-TX)
- **12.1" XGA TFT Display**
- V.90 modem
- High-capacity Lithium-Ion battery
- Digital touch pad
- Bundled i.LINK Port Replicator and external floppy disk drive
- One type II PC Card slot with card bus support
- Memory Stick Media Slot
- Two USB ports
- Built-in stereo speakers

Customize with:
★ Upgrade to 128 MB RAM add: $200.00

505TR $1,999.99

As low as $36.09 a month*

- **Mobile Intel Pentium processor with MMX technology 300 MHz**
- 64 MB SDRAM (expandable to 128 MB max.)
- **6.4 GB fixed hard drive**
- 0.9" thin; 3.1 lbs.
- **10.4" XBRITE™ XGA TFT Active Matrix Display**
- V.90 modem
- Double-capacity Lithium-Ion battery
- Touch pad with pen operation
- Bundled Port Replicator and external floppy disk drive
- One type II PC Card slot with card bus zoomed video support

Customize with:
★ Upgrade to 128 MB RAM add: $300.00

Receive 2,500 FREE Frequent Flyer Miles from your choice of one of six airlines (American, Continental, Delta, Northwest, United, U.S. Airways) with purchase of VAIO Z505S or Z505SX. (Offer expires 9/30/99) See www.sony.com/vaiorebate for details on offer.

$100 Rebate with purchase of VAIO 505TR and CD-ROM Drive (PCGA-CD5 or CD51). (Offer expires 9/30/99)

Pre-Installed Software
(All models):
- Windows® 98
- Microsoft® Outlook™ 98
- Microsoft Works®
- Adobe® PhotoDeluxe®
- Sony PictureGear™
- Sony DVgate™ Still

Pre-Installed Software
(Z505SX and Z505S models):
- Sony Smart Capture
- Sony Smart Connect
- Sony Smart Publisher
- Sony Smart Write

Sony Exclusive Features:
(All models):
- i.LINK® (IEEE-1394) interface for DV still image capture
- Programmable Power Key (PPK) for unattended e-mail retrieval

Sony Exclusive Features:
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- Pen-based signature and drawing capture

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VAIO C1 PICTUREBOOK COMPUTER

The tiny, powerful PC with a built-in camera.

This paperback-sized marvel is loaded with a Mobile Intel Pentium processor with MMX™ technology 266 MHz, a huge 4.3 GB hard drive, 64 MB SDRAM and Windows 98. Plus it lets you take and send pictures instantly—just swivel the camera toward your subject and capture a still shot or a 60-second video clip and use the integrated modem to send your images.

PCG-C1X $2,299.99

As low as $41.51 a month*

- Mobile Intel Pentium processor with MMX technology 266 MHz
- 64 MB SDRAM (expandable to 128 MB max.)
- 4.3 GB fixed hard drive
- Built-in CCD camera (Motion Eye™)
- 8.9" XWIDE TFT LCD Display (1024 x 480)
- 17mm pitch/2mm stroke keyboard
- 2.5 lbs., 1.5" thin
- Integrated V.90 modem
- i.LINK (IEEE-1394) interface for DV still image capture
- Magnesium-alloy LCD casing
- Bundled external USB floppy disk drive
- Lithium-Ion Battery

$100 Rebate with purchase of VAIO C1 PictureBook Computer. (Offer expires 9/30/99)

$100 Rebate with purchase of VAIO C1 PictureBook Computer and CD-ROM Drive (PCGA-CD5). (Offer expires 9/30/99)

Pre-installed Software:
- Windows 98
- Adobe PhotoDeluxe
- Sony Smart Write
- Sony Smart Publisher
- Sony Smart Capture

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SN-899-2CS

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Enhance the way you live, work and play.

With Digital Video Editing, Video Email, PC networking and a host of capabilities using Sony DVgate Still/Motion, Media Bar, PictureGear, and Smart Capture software, you can build the Sony Digital Studio according to your needs.

PCV-R528DS $2,299.99

As low as $41.51 a month*

- **Intel Pentium III Processor 500MHz**
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- 128 MB PC-100 SDRAM (expandable to 256 MB max.)
- 13 GB Ultra ATA hard drive
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- CD-RW Drive

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PCV-R526DS $1,699.99

As low as $30.68 a month*

- **Intel Pentium III Processor 450 MHz**
- 8 MB Video Memory (SDRAM)
- 128 MB PC-100 SDRAM (expandable to 256 MB max.)
- 10 GB Ultra ATA hard drive
- 6X (max.) DVD-ROM

PCV-R522DS $1,199.99

As low as $21.65 a month*

- **Intel Celeron Processor 466MHz**
- 8 MB Video Memory (SDRAM)
- 64 MB PC-100 SDRAM (expandable to 256 MB max.)
- 10 GB Ultra ATA hard drive
- 32X (max.) CD-ROM

Pre-Installed Software (All models):

- Sony DVgate Motion
- Sony DVgate Still
- Sony PictureGear
- Sony Smart Capture
- Sony Smart Connect
- Sony Media Bar™
- Sony DV Tutorial CD
- Adobe Premiere® LE
- Adobe PhotoDeluxe
- Adobe Acrobat® Reader
- Star Wars® Jedi Knight™: Pathways to the Force™
- Star Wars Rogue Squadron™ 3D: Elite Missions™
- Intuit® Quicken® Basic 99
- Symantec WinFax® Basic Edition
- Microsoft Encarta® 99
- Microsoft Money 99
- Microsoft Outlook 98
- Microsoft Works

Sony Exclusive Features (All models):

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- 2 USB Ports (front and rear)
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- 3D Positional Audio (Aureal A3D)
- Programmable VAIO Smart™ Keyboard
- Wheel Mouse
- External stereo speakers with enhanced bass

Up to $180 Rebate with purchase of a Digital Studio PC, VAIO Display and Canon Bubble Jet ™ Printer.

***Eligible Sony VAIO Computers: PCV-R528DS, PCV-R526DS, PCV-R522DS; eligible Sony displays: CPD-200ES/L, CPD-100ES/L; eligible Canon printer: BJC-2000. For details on rebate, visit our web site at www.sony.com/vaiorebate

FREE i.LINK cable with purchase of PCV-R528DS

FREE 3 CD-RW pack with purchase of PCV-R528DS upgrade

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No need to lug around peripherals—everything is built right in.

We've packed a DVD-ROM or a CD-ROM, the hard and floppy drives, the V.90 modem, stereo speakers and a high-capacity Lithium-Ion battery inside. You can also get an Intel Pentium II processor and a brilliant 15" display with select models.

3MAX+ Features (all models):

- MaxScreen: 15" XGA TFT(F290 only)
- MaxBattery: 2X battery life†
- MaxMobility: About 7 lbs.;†† under 2" thin

Plus:

- All-in-One design
- i.LINK (IEEE-1394) interface

3MAX+

Pre-installed Software (all models):

- Windows 98
- Microsoft Outlook 98
- Microsoft Works
- Adobe PhotoDeluxe
- Sony Picture Gear
- Sony DVgate Still

†Using optional second battery in floppy drive bay. Battery life based on usage. ††With weight saver in floppy drive bay.

F290 $3,499.99

As low as $63.17 a month*

- **Mobile Intel Pentium II processor 400 MHz**
- 128 MB SDRAM
- **6.4 GB fixed hard drive**
- **4X DVD-ROM** (max.)
- 15" XGA TFT screen
- Integrated V.90 modem
- High-capacity Lithium-Ion battery, dual battery capability
- 256-bit graphics chip
- Built-in stereo speakers
- Digital touch pad
- i.LINK (IEEE-1394) interface for DV motion capture and editing

F280 $2,799.99

As low as $50.53 a month*

- **Mobile Intel Pentium II processor 366 MHz**
- 64 MB SDRAM (expandable to 128 MB max.)
- **6.4 GB fixed hard drive**
- **4X DVD-ROM** (max.)
- 14.1" XGA TFT screen
- Integrated V.90 modem
- High-capacity Lithium-Ion battery, dual battery capability
- 256-bit graphics chip
- Built-in stereo speakers
- Digital touch pad
- i.LINK (IEEE-1394) interface for DV motion capture and editing

Customize with:

★ Upgrade to 128 MB RAM add $200

F270 $2,399.99

As low as $43.31 a month*

- **Mobile Intel Pentium II processor 333 MHz**
- 64 MB SDRAM (expandable to 128 MB max.)
- **6.4 GB fixed hard drive**
- **4X DVD-ROM** (max.)
- 14.1" XGA TFT screen
- Integrated V.90 modem
- High-capacity Lithium-Ion battery, dual battery capability
- 256-bit graphics chip
- Built-in stereo speakers
- Digital touch pad
- i.LINK (IEEE-1394) interface for DV motion capture and editing

Customize with:

★ Upgrade to 128 MB RAM add $200

F250 $1,699.99

As low as $30.68 a month*

- **Mobile Intel Celeron processor 366 MHz**
- 32 MB SDRAM (expandable to 96 MB max.)
- **4.3 GB fixed hard drive**
- **24X CD-ROM** (max.)
- 13" XGA HPA screen
- Integrated V.90 modem
- High-capacity Lithium-Ion battery, dual battery capability
- 256-bit graphics chip
- Built-in stereo speakers
- Digital touch pad
- i.LINK (IEEE-1394) interface for DV still image capture

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★ Upgrade to 96 MB RAM add $200

10 FREE DVD rentals from NetFlix.com with purchase of F290, F280 or F270.# (Offer expires 9/30/99) See www.sony.com/vaiorebate for details on offer.

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VAIO ALL-IN-ONE NOTEBOOK ACCESSORIES



- **AC Adapter** PCGA-AC71: **$99.99.** Get an additional AC adapter and keep one at home and one at work.



- **Rechargeable Battery Pack** PCGA-BP71: **$249.99.** Up to 7 hours with two batteries. Note: Battery life may vary based on usage.



- **Network Port Replicator** PCGA-PRF1: **$199.99.** Built-in Ethernet 10 Base-T, USB parallel, serial VGA, DC-in, PS/2® keyboard and PS/2 mouse ports.



- **All-in-One Carrying Case** PCGA-CCF: **$99.99.** Easily holds notebook and accessories.

VAIO C1 PICTUREBOOK ACCESSORIES



- **External 14X (max.) CD-ROM Drive** PCGA-CD51: **$299.99.** Plug it into your computer and get set for some serious multimedia.
- **AC Adapter** PCGA-AC51: **$99.99.** Get an additional AC adapter and keep one at home and one at work.
- **C1 Carrying Case** PCGA-CC1A: **$149.99.** Includes a convenient Velcro™ detachable fitted leather glove-casing.
- **Long-Life Rechargeable Battery Pack** PCGA-BP12: **$299.99.** Lithium-Ion battery provides up to 6 hours capacity. Note: Battery life may vary based on usage.
- **Battery Charger** PCGA-BC1: **$199.99.** Quickly charge two batteries simultaneously. Compatible with Standard and Long-Life batteries.
- **Standard Rechargeable Battery Pack** PCGA-BP11: **$149.99.** Lithium-Ion battery provides up to 3 hours capacity. Note: Battery life may vary based on usage.

VAIO 505 SUPERSLIM NOTEBOOK ACCESSORIES



- **External 14X (max.) CD-ROM Drive** PCGA-CD51: **$299.99.** Plug it into your computer and get set for some serious multimedia.



- **Leather Carrying Case** PCGA-CC5: **$149.99.** Custom case includes detachable compartments for all of its accessories.



- **Rechargeable Battery Pack Long-Life:** PCGA-BP52: **$299.99.** Up to 6 hours with 505TR. Note: Battery life may vary based on usage.

  Standard: PCGA-BP51: $149.99. Up to 2.5 hours with 505TR. Note: Battery life may vary based on usage.



- **Port Replicator** PCGA-PR5: **$99.99.** Ports: Parallel printer, PS/2 keyboard, PS/2 mouse and VGA monitor.
- **Battery Charger** PCGA-BC5: **$199.99.** You can charge 2 batteries simultaneously. Compatible with both Long-Life and Standard batteries.



- **Stereo Speakers** PCGA-SP51: **$99.99.** External clip-on speakers that give you even more sound.



- **AC Adapter** PCGA-AC51: **$99.99.** Get an additional AC adapter and keep one at home and one at work.

VAIO Z505 SUPERSLIM PRO NOTEBOOK ACCESSORIES





- **Rechargeable Battery Pack Triple-Life:** PCGA-BPZ52: **$399.99.** Up to 5 hours with Z505SX; up to 6 hours with Z505S. Note: Battery life may vary based on usage.

  Standard: PCGA-BPZ51: **$199.99.** Up to 1.5 hours with Z505SX and Z505S. Note: Battery life may vary based on usage.



- **External 14X (max.) CD-ROM Drive** PCGA-CD51: **$299.99.** Plug it into your computer and get set for some serious multimedia.



- **Port Replicator with i.LINK** PCGA-UPR5: **$99.99.** Ports: Parallel, Serial, VGA Monitor, i.LINK and USB.



- **Monitor Adapter** PCGA-DA5: **$49.99.** Connects VGA monitor without Port Replicator.



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FUJITSU LIFEBOOK B112

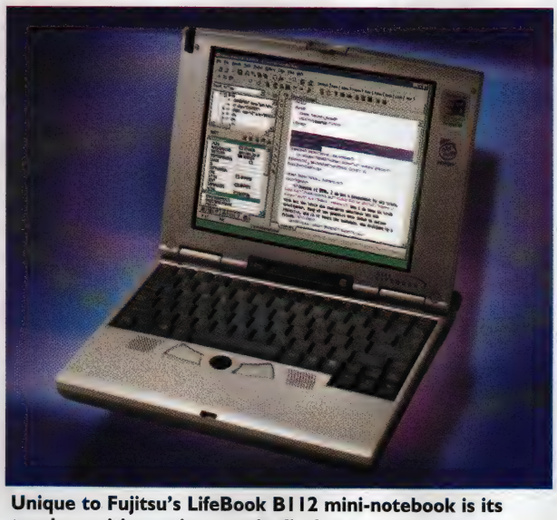
Long-Lasting LifeBook

This 2.7-pound mini-notebook delivers outstanding value and sets a new standard in battery life for ultraportables.

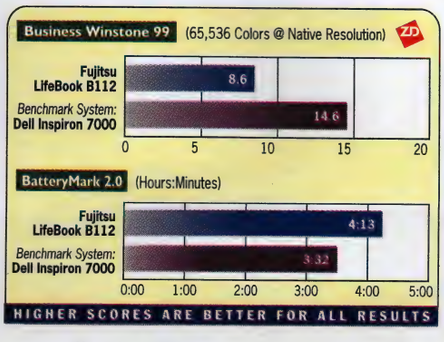
BY DANIEL A. BEGUN

The ultraportable category of notebooks is growing more crowded by the month. Sony Electronics took the lead with its VAIO 505 SuperSlim series, and it was quickly joined by the Sharp Actius PC-A100, the Toshiba Portégé 3000, and the Dell Latitude LT M266ST. Now Fujitsu PC Corp. has jumped into the race with its new LifeBook B112 mini-notebook. This unit has a great price and outstanding battery life, but it's hindered by its undersize screen and keyboard.

The LifeBook's average price of $1,565 makes it one of the least expensive mini-notebooks to come along. It's neither the slimmest nor the lightest, but that's not to say that this portable is portly: Its 1.3x9.1x6.7-inch (HWD) case and 2.7-pound heft are smaller than the competition. When you snap on the notebook's back-mounted port replicator, it gains a quarter-pound and expands 1.1 inches in depth.



Unique to Fujitsu's LifeBook B112 mini-notebook is its touch-sensitive active-matrix display.



Powering the LifeBook is a 233MHz MMX Pentium processor and 32MB of SDRAM. Also under the hood are a 3.25GB hard drive, an integrated V.90 modem, a lithium-ion battery, and a diminutive 8.4-inch SVGA active-matrix display.

This screen is smaller than the displays used by other mini-notebooks. The LifeBook's LCD, however, does have a unique feature among Windows 98-based mini-notebooks: It's touch-sensitive. A stylus, stored to the left of the display panel, permits you to interface directly with the screen, offering an alternative to the QuickPoint pointing knob located on the LifeBook's 2.75-inch wrist rest.

The touch-screen LCD, however, can be more a hindrance than a help because its glass face is far more susceptible to glare than most active-matrix displays are. Consequently, we found the panel difficult to view under a variety of lighting conditions. Even in optimum lighting, the display was not as bright as we would have liked. What's more, the LifeBook offers only two brightness settings—dark and bright—that can be accessed only via the system BIOS or the power-management software.

Our unit's display panel didn't contain a single bad pixel. Fujitsu's dead-pixel policy is complex, but simply stated, the company considers any display with more than three bad pixels defective. Driving the display is a NeoMagic MagicGraph 128XD graphics chip with 2MB of EDO DRAM. At its native resolution of 800x600, the LifeBook supports up to a 24-bit color depth. When sending the display signal to an external monitor and its own LCD simultaneously, the LifeBook supports a 16-bit color depth at a maximum resolution of 1,024x768.

Mini-notebooks have become popular with the presentation-giving crowd because of their extreme portability. If you plan to use the LifeBook for presentations, however, you'll need access to a CRT, and powered speakers as well, because the unit's built-in stereo speakers distort audio when the volume is cranked up too loud.

The real Achilles' heel of the LifeBook, however, is the 15mm spacing of its 84-key keyboard. The key spacing is noticeably smaller than the 17mm or 18mm pitch typical of other mini-notebooks. Unless you have very small fingers, doing more than occasional typing on the LifeBook can be uncomfortable and frustrating.

When it comes to battery life, this model is the Methuselah of mini-notebooks. The LifeBook lasted an impressive 4 hours and 13 minutes on our BatteryMark 2.0 test, showing significantly more staying power than we have seen on other notebooks of this class. The LifeBook's application performance, as measured by its Business Winstone 99 score of 8.6, is only a bit slower than that of the 233MHz MMX Pentium-based Sharp Actius PC-A100, which scored 9.9 in our March issue review. (See p. 240.) If the LifeBook had 64MB of memory (a $150 option), as the Actius does, the LifeBook's application performance would most likely show noticeable improvement.

Like many other mini-notebooks, the LifeBook is sheathed in a silver-colored magnesium case and offloads a number of its ports onto its port replicator. The port replicator contains PS/2, floppy, ECP parallel, serial, and VGA ports. Both the port replicator and the external floppy drive can be hot-swapped. Without the port replicator attached, a PS/2 port on the back of the unit still permits you to use an external keyboard.

An optional PC Card-interface 24x CD-ROM drive sells for $269. The LifeBook comes with a one-year warranty, which can be expanded for another two years for $180. Toll-free phone support is available around the clock; our test call to Fujitsu's support had us speaking with a technician in less than 3 minutes.

The LifeBook B112 mini-notebook has a petite keyboard and a somewhat disappointing display, but some users might find that the notebook's price, portability, and superb battery life overshadow its limitations. ▼

SYSTEM ..... Fujitsu LifeBook B112
COMPANY ..... Fujitsu PC Corp.
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www.fujitsu-pc.com
AS TESTED ... 233MHz MMX Pentium; 32MB SDRAM; 512K L2 cache; Intel 430TX chip set; 3.25GB Fujitsu Mobile 4L MHD2032AT hard drive; external 1.44MB floppy drive; NeoMagic MagicGraph 128XD graphics chip set with 2MB integrated EDO DRAM; 8.4-inch SVGA active-matrix touch-sensitive LCD; stylus; ESS ES1879 audio chip set; built-in stereo speakers; integrated V.90 modem; lithium-ion battery; port replicator with PS/2, floppy, ECP parallel, serial, and VGA ports; Fast IR port; CardBus- and Zoomed Video-capable Type II PC Card slot; Kensington lock slot; volume wheel; headphone and microphone jacks; two USB ports; QuickPoint pointing device; Windows 98; additional software
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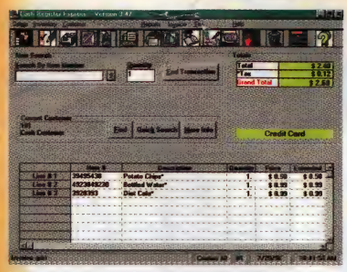
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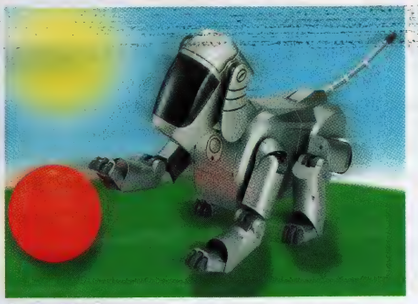
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TRENDS

Rover Gets A Recharge

Sony hopes its computerized canine will open a new market for robot hardware and software.

In an uncharacteristically modest effort, **Sony Corp.** introduced the world to its first robotic dog, **AIBO,** with an online-only sale of 5,000 units (3,000 in Japan and 2,000 in the United States). Despite AIBO's beyond-purebred price tag of $2,066, plus another $414 for its motion-editing software ($2,500 and $500, respectively, in the United States), Sony sold 3,000 of the computerized canines in 20 minutes in Japan. Sales were a bit slower in the United States, with some units still available a week after the sale started in early June.


Sony AIBO

Despite the low-key rollout, AIBO's creators are clearly thinking long-term. "Sony hopes these new products will open a new market not only for robot hardware, but software for the next century," Sony vice president Toshi Doi said at a news conference announcing the product.

At present, the puppy-size AIBO (in Japanese, it means partner; in English it's a clever melding of the acronym for "artificial intelligence" with the word "robot") is little more than an expensive toy. It can dance and chase a ball, but it can't pick up objects, does not respond to its name, and isn't much of a watchdog. But that's likely to change with future offerings. In fact, when Sony debuted the AIBO prototype at COMDEX/Fall '98, the robot did exhibit some voice-recognition capabilities.

All in all, this is an important first step. Although AIBO won't be mistaken for C3PO just yet, it's just a matter of time before the term "smart appliance" takes on a whole other meaning.

AIBO hasn't yet learned to speak, but more and more people are talking to their computers. Headset maker **Plantronics** projects that worldwide revenue from speech-recognition products will mushroom from $4.9 billion in 1999 to $36.8 billion in 2003. To capture some of that market, Plantronics' new Computer Audio Systems Division (CASD) recently introduced its first three PC headset products. All feature noise-canceling microphones with QuickAdjust designs that provide accurate positioning for consistently uniform performance and better accuracy.

"One of the problems we've seen with competitors' products is that, in the course of adjusting the microphone, users can wind up speaking into the back of the unit, which severely limits sensitivity," says Matt Miller, CASD's director of marketing. "That can't happen with our headsets. It's a very simple thing, but no one has done it until now."

The entry-level **SR1** is a monaural headset with a single earpiece that lists for $29.95. The midline **LS1** is a $49.95-list stereo model with an inline volume control and microphone mute, and the top-of-the-line, $79.95-list **HS1** is a hi-fi stereo headset targeted primarily at gamers. It features cushioned earpieces, an inline control, and a hinged microphone that swings up when not in use.

SANDISK SUED

There are ugly developments on the digital-film front. **Lexar Media,** a maker of high-performance CompactFlash and SmartMedia cards for digital cameras, has filed a lawsuit against **SanDisk** in U.S. District Court in San Jose, Calif. The suit charges SanDisk with unfair competition, trade libel, false advertising, and interference with Lexar's business.

"This case is about defending the rights of smaller high-tech companies...to compete fairly against a large public company," said John Reimer, Lexar's president and chief executive, in a released statement. "It's also about defending the customer's rights to choose products based upon accurate information."

Lexar is asking the court for an injunction against SanDisk as well as compensatory damages.

SanDisk counters that the suit is without merit and plans to ask the court to dismiss the case, according to Nelson Chan, SanDisk's vice president of marketing. He claims the suit arose in part from a test conducted at SanDisk's compatibility lab, in which the speed of Lexar and SanDisk CompactFlash cards were compared in five new digital cameras. SanDisk says the tests showed its cards to be faster than Lexar's in all the cameras. Lexar claims the test results, which were made public, are false.

"Our testing is valid," Chan says. "It seems like Lexar is ignoring the fact that we have significantly improved the performance of our CompactFlash cards over time. We stand by our test results."

—Steve Schwartz

ACTIVE LINKS

www.robotmag.com . . . . . *Robot Science & Technology Webzine*
www.scottrell.com/Speech/index.html. . . *Speech Recognition Web Site*
www.world.sony.com/robot/top.html . . . . . *Sony AIBO site*

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NEWSBITS

MINOLTA SHOOTS FOR 3-D

A new digital still camera from **Minolta Corp.** gives those who maintain a personal Web site a relatively inexpensive way to create three-dimensional images. The **Minolta 3D 1500** is based on **MetaCreations Corp.'s MetaFlash** technology, which uses a series of different-sized 2-D images to create a 3-D image. To view the images over the Internet, users need the **MetaStream** browser plug-in, developed by MetaCreations and **Intel Corp.** Minolta has not yet set pricing or availability for the 3D 1500. According to MetaCreations, **Eastman Kodak Co.** has also licensed the technology for a similar product.


Minolta 3D 1500

SPEED THRILLS

Other vendors embrace 4x CD-R and CD-RW write speeds, but **Plextor Corp.** designed its new **PlexWriter 8/2/20** CD-RW drive with 8x CD-R write capability. "We believe people are more concerned with recordable, rather than rewritable, performance," says Felix Nemirovsky, Plextor's vice president of engineering. "This drive delivers the fastest write speed available." The new $569-list internal drive also ships with updated versions of Plextor's **CD Res-Q** and **Plextor Manager** software. ▼

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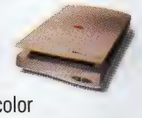
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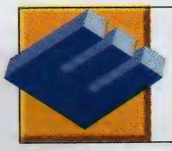
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AVERAGE PRICE	$251
beta	Beta device drivers

beta Following hot on the heels of 3dfx Interactive's Voodoo3 3000 card—and targeted at the same hard-core gamer audience—Diamond Multimedia Systems' $251-average Viper V770 Ultra proves to be a worthy contender with impressive features and performance.

The Ultra is powered by nVidia Corp.'s new 150MHz Riva TNT2 graphics chip set. The card has an integrated 300MHz RAMDAC as well as 32MB of SDRAM running at 183MHz. It also features support for both 2x and 4x AGP, and for Diamond's 3D Turbo Gauge utility, which lets you overclock the core to 175MHz and the memory to 200MHz, although this feature was absent from our evaluation sample. Another utility lets you tweak individual 3-D settings for different applications. For example, you can disable anti-aliasing, MIP mapping, or synch to vertical refresh.

The TNT2 operates at 128 bits and uses a 128-bit memory bus. It supports AGP texturing and true 32-bit rendering, and is capable of a 32-bit color depth up to a 1,920x1,440 resolution at a 60Hz refresh rate. (The maximum setting is 2,048x1,536 in 16-bit color at 60Hz.)

Not surprisingly, the Ultra's fast 3-D performance was right up there with our Voodoo3 3000 reference card. Both boards were tested on a 2x AGP 450MHz Pentium II system, although the Ultra's 3D WinMark 99 score of 865 was slightly better than the Voodoo3's 828 result. The cards' similar 2-D performance represents less of a leap from the previous generation—although you should have no problem running 2-D business applications.



The TNT2-based Viper V770 ships with a utility that lets you overclock the core and the memory.

Anecdotal testing with Incoming and Quake II found the Ultra's gaming abilities to be in league with those of the speedy Voodoo3. On Incoming, the Ultra's 84-fps rate was a bit faster than the Voodoo3's 80 fps, while its 60-fps rate on Quake II lagged behind the Voodoo3's 74 fps. Testing was performed at 1,024x768 in 16-bit color. Because the Voodoo3 is limited to 16MB of onboard memory, the Ultra is likely to have the upper hand at higher resolutions and with games that use significantly larger texture maps.

The Ultra ships with Need for Speed III, Hot Pursuit, and two 3-D visualization add-ons for Microsoft Office 97. Diamond also expects to include full versions of Gremlin's Wild Metal Country and Electronic Arts' Super Bike World.

Although it offers outstanding performance, the Ultra's $250 price—$70 more than the Voodoo3 3000—may be a drawback for some users. However, its advanced features, particularly the 3D Turbo Gauge utility, have the potential to assist hard-core gamers in squeezing out even faster performance.

—Daniel A. Begun

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AVERAGE PRICE	$855

The Nikon Coolpix 950 makes an unforgettable first impression. More powerful than any under-$1,000 digital camera we've seen, it can capture tall buildings in a single frame, sells for an average price of $855, and offers an overwhelming array of features for the price.

Computer Shopper Best Buy July 1999

A 35mm-equivalent, 3x zoom lens with a swivel design, paired with other high-end features, makes the **Nikon Coolpix 950** the most potent 2-megapixel camera we've seen yet.

You can operate the Coolpix 950 in automatic mode, manual mode, and many variations in between, including aperture-priority, shutter-priority, and program modes. The flash supports delayed sync; you can choose among matrix, spot, and center-weighted metering, as well as perform exposure compensation of plus or minus two stops in increments of one-third. Its 38mm to 115mm (35mm equivalent) zoom lens covers most situations. And its split-swivel design makes it easy to capture the Empire State Building from ground level to the top floor without requiring a tripod or inflicting a neck injury.

The images are sharp, with good—although somewhat cool—flesh tones and satisfactory color rendition. Still, we found the CCD to be a bit unforgiving in low-light situations, turning skin an alarming shade of orange and displaying marked clipping in the shadows. All the same, we found it less susceptible to color noise than many competing cameras.

Note, however, that learning how to access all these features takes some study and a good memory, and some features are awkwardly implemented. For instance, to manually focus, you have to press a button with your thumb and scroll a wheel with your forefinger while gripping the camera with the rest of your hand.

Also, if you save your digital pictures in uncompressed mode, you can only fit a single 5MB file on the 8MB CompactFlash card that ships with the camera.

The marketing literature claims you can print the images with photographic quality up to 11x14 inches, but we have our doubts—at that size, you'd be printing at 110 dpi, which is far from optimal. The camera is certainly capable of a solid 5x7-inch print, however, and should do a creditable job on an 8x10.



The Coolpix 950's feature selection gives you unsurpassed control over your digital images.

If you're planning to operate in automatic mode forever, you should consider the smaller, less expensive, and more limited Coolpix 700. Otherwise, you'll find the Coolpix 950 to be a reasonably priced, full-featured digital camera that won't be intimidated by the other equipment in your camera bag.

—Lori Grunin

SECTION CONTINUES ON PAGE 215

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BA Cel-366 32MB 8.4GB 32X 56K W98 MT	#109406	$1049
Bax P2-350 64MB 8.4GB 32X G200 W98 MT	#108614	$1129
Bax P2-400 64MB 8.4GB 32X G200 ENET NT MT	#108686	$1229

Vectra Series

VEi7 Cel-400 32MB 4.3GB No CD AGP/4MB W95 DT	#616544	$769
VE8 P2-350 32MB 3.2GB No CD W95 MT	#60253	$999
VLi8 P2-450 64MB 8.4GB 24X 10/100 NT MT	#615774	$1399
VL8 P2-350 32MB 4.3GB No CD W95 NT DT	#70863	$1299
VL8 P2-450 64MB 6.4GB 32X W95 NT MT	#60278	$1768
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VEi8 P2-400 64MB 8.4GB 24X ENET NT DT	#615773	$1339
VLi8 P3-450 64MB 6.4GB No CD G200 ENET NT DT	#104885	$1559
VLi8 P3-450 64MB 8.4GB 32X G200 W95	#615782	$1329
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R526DS P3-450 128MB 10.GB 6DVD V.90 MT	#109331	$1699.99
R528DS P3-500 128MB 13GB 6DVD CD-RW MT	#109332	$2299.99
L400 P2-400 64MB 6.4GB 24X 14.1 MT	#105921	$2299.99
L600 P3-500 128MB 10.8GB 24X 56K 14.1 TFT	#105922	$2999.99

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16MB	(4x32)	72-pin	70ns	#95693
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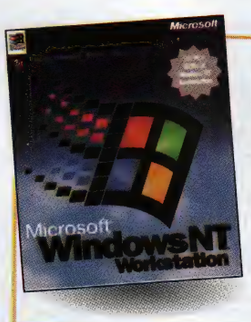
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HP DeskJet 895Cse Printer	600 dpi/PhotoRet II	10/6	2 MB	8.5x14"	1	#60236	$399.98
HP DeskJet 1120Cse Printer	600 dpi/PhotoRet II	6.5/4.5	512K	13"x19"	1	#57734	$499.98
HP 2000 Prof. Series Printer	600 dpi/PhotoRet II	10/7	2 MB	8.5x14"	1	#57731	$599.98
HP OfficeJet 600 All-in-one	600x600	5/2	512K	8.5x14"	1	#53201	$399.98
HP OfficeJet 710 Color All-in-one	600x600	5/2		8.5x14"	1	#60220	$499.98
HP OfficeJet R40 Print,Copy,Scan	600x600	8/4	512K	8.5x14"	1	#107458	$599.98

Black/White Laser	Max. Std. Resolution	Page per Min. B&W/Color	RAM Std./Max.	Max. Paper Size	Warranty (Years)	Item #	ONLY
HP LaserJet 1100se Printer	600x600	8	3/18MB	8.5x14"	1	#60286	$399.98
HP LaserJet 2100se Printer	1200x1200	10	4/52MB	8.5x14"	1	#102382	$699.98
HP LaserJet 4050N Network Printer	1200x1200	17	16/100MB	8.5x14"	1	#617964	$1389
HP LaserJet 8100 Printer	1200x1200	32	16/208MB	11.7x17.7"	1	#83019	$2599
HP COLOR LaserJet 4500 Printer-600dpi/ImageREt 2400	16/4		32/208MB	8.5x14"	1	#60295	$2439
Lexmark Optra E+	600x600	18		8.5x14"	1	#49504	$319.98
Lexmark Optra S 1855n	600x600	18		8.5x14"	1	#07000	$1399
Tektronix Phaser 780 Plus	1200x1200	16/4	128MB/192MB	8.5x14"	1	#76470	$7095
Tektronix Phaser 740 Duplex	1200x1200	16/5	128MB/256MB	8.5x14"	1	#104407	$3595
Tektronix Phaser 740L	1200x1200	16	8/256MB	8.5x14"	1	#76620	$1495
Tektronix Phaser 740 Color	1200x1200	16/5	20/256MB	8.5x14"	1	#76646	$1995
Tektronix Phaser 740 Plus	1200x1200	16		8.5x14"	1	#76087	$2795
Tektronix Phaser 840	1200x1200	16		8.5x14"	1	#76477	$2495

Scanners

Model	Optical Resolution	Color Bit/Depth	Scan Area	Item #	ONLY
Umax Astra 1220S	600x1200dpi	36-Bit	8.5x11.7"	#58475	$129.98*
	*After $20 mfr. mail-in rebate. Offer good through 8/31/99				
Umax Astra 2000U USB	600x1200dpi	36-Bit	8.5x11.7"	#622652	$99.98*
	*After $30 mfr. mail-in rebate. W/CPU Purchase. Offer good through 7/31/99				
Umax Astra 2100U USB	600x1200dpi	36-Bit	8.5x11.7"	#622651	$149.98*
	*After $20 mfr. mail-in rebate. Offer good through 7/31/99				
Umax Astra 2400S	600x2400dpi	36-Bit	8.5x14"	#18369	$299.98
Microtek ScanMaker 4	1200x600dpi	36-bit	8.5x14"	#90877	$659.98
Microtek ImageDeck	600x600dpi	36-bit	8.5x11.7"	#97131	$499.98
Microtek X6 USB	600x1200dpi	36-bit	8.5x11"	#104840	$149.98
Microtek ScanMaker X6EL	600x1200dpi	36-bit	8.5x14"	#18400	$239.98
HP ScanJet 3200Cse Scanner	600x1200dpi	30-Bit	8.5x11.7"	#102389	$99.98
HP ScanJet 4200Cse USB Scanner	600x1200dpi	36-Bit	8.5x11.7"	#102388	$199.98
HP ScanJet 5200Cse Scanner	600x1200dpi	36-bit	8.5x11.7"	#102386	$299.98
HP ScanJet 6200Cse Scanner	1200dpi	36-bit	8.5x11.7"	#60205	$399.98
HP ScanJet 6250Cse Scanner w/ADF	1200dpi	36-Bit	8.5x14"	#60277	$499.98
UMAX Mirage II Duo Advanced	700x1400dpi	36-bit	11.4x17"	#97187	$1995
UMAX PowerLook III WUTA	200x2400dpi	42-bit	8.5x11.7"	#31864	$1195
IBM IdeaScan	600x1200dpi	36-bit	8.5x11"	#82469	$129.98
Agfa 1212U	600x1200dpi	36-bit	8.5x11.7"	#100729	$125.98

Digital Cameras

Model	Pixel Resolution	Image Resolution	Lens	Display	Memory	Item #	ONLY
AGFA ePhoto CL30	1.8mil	1152x864	2x	1.8"	4MB	#602326	$389.98
AGFA ePhoto CL50	1.9mil	1343x972	3x	1.9"		#602327	$699.98*
HP Photosmart C30		1152x872	2x	1.8"	4MB	#83446	$399.98
Fuji MX-600Z	1.5mil	1280x1024	3x	1.8"	4MB	#625992	$549.98
Fuji MX-2700	2.5mil	1800x1200	Auto	2.0"	8MB	#615993	$649.98
Fuji DX-10	1.5mil	1024x768	Auto	1.8"	2MB	#615991	$299.98
Olympus D-340R	2.0mil	1280x960	2x	2.0"	4MB	#97195	$399.98
Olympus D-400 Zoom	2.0mil	1280x960	2x/3x	2.0"	8MB	#96863	$699.98
Olympus D-620L Zoom	1.8mil	1280x1024	3x	1.8"	8MB	#96864	$999.98
Olympus C-2000	2.1mil	1600x1200	3x	1.8"	8MB	#618993	$999.99
Kodak DC260	2.0mil	1536x1024	6x	2.0"	8MB	#73283	$899.98
Kodak DC265	2.0mil	1536x1024	3x	2.0"	16MB	#610054	$999.98
Kodak DC220	2.0mil	1152x864	4x	2.0"	8MB	#73282	$699.98
Kodak DC210 Plus	1.8mil	1152x864	2x	1.8"	4MB	#31861	$499.98
Epson PhotoPC 750z	2.1mil	1600x1200	3x	2.0"	12MB	#77933	$699.98
Mavica FD73	350K	640X480	10x	2.5"LCD	Floppy	#617980	$499.98
Mavica F83	1.4mil	1216x912	3x	2.5"LCD	Floppy	#617978	$699.98
Mavica FD88	1.3mil	1280x960	8x	2.5"LCD	Floppy	#617979	$899.98
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The ultimate removable-storage device has yet to be invented. Some are too slow, some too expensive. Others offer too little capacity to be practical. The Orb, a new contestant from Castlewood Systems, isn't the ultimate in removable storage, but it comes awfully close.

The drive runs like a rocket, can store up to 2.2GB of data on each cartridge, and costs about $200. It comes in parallel-port, SCSI, and IDE versions. (There are also plans for a USB version that will sell for about $249.) The only possible downside of the Orb is the inability to share files with other PCs—because it's so new, it's not as common as other drives.

Best Buy July 1999

The **Castlewood Orb** drive is fast, offers an incredibly low cost per megabyte, and can store up to 2.2GB per cartridge. The Orb's only drawback is that it's not yet commonplace.

Installing the internal IDE model was a bit tricky, simply because it's designed to fit in a 3.5-inch drive bay. If your PC doesn't have an open bay, you can get an adapter to use in a 5.25-inch bay. Furthermore, the Orb doesn't ship with any cables, so unless you have a spare, you'll have to piggyback it onto an existing IDE channel. We connected it as a slave device to the extra connector on our hard drive cable, and had it up and running inside of 10 minutes—thanks to the manual's excellent job of spelling out the various installation options.

We tested the Orb on a 200MHz Dell Dimension system using WinBench 99's Removable Media Test. Though installed in a relatively slow machine, the drive performed like a champ, posting a score of 1,300. (The system's hard drive scored only 20 percent higher.) It also aced our informal real-world tests, which included backing up a 1GB hard drive partition in under 15 minutes. Copying a 5MB file took just a few seconds. And the game we installed to the cartridge ran as smoothly as if it were running off a hard drive.



Finding an open bay in your PC might be the most difficult aspect of installing the Orb drive.

Castlewood also bundles the Orb with robust utilities for making backups, tracking files, copying cartridges, and creating system-recovery disks. Cartridges cost around $35 each, quite a contrast to the $150 per-cartridge price for Iomega Corp.'s 2GB Jaz drive.

The Orb is fast, affordable, and more capacious than any magnetic-based drive available. We just hope to see it become so commonplace that sharing Orb cartridges with others is viewed as an everyday routine.

—Rick Broida

MATROX MILLENNIUM G400 16MB

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PRODUCT	Matrox Millennium G400 16MB
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SUPPORT	Live phone support, 8 a.m. to 6 p.m. weekdays (ET); BBS; CompuServe; e-mail; Web; three-year warranty
SUITABILITY	For business users seeking multiple-monitor support and gaming enthusiasts who demand fast 3-D performance
MFR. EST. PRICE	$149
beta	Preproduction card and beta drivers

beta

If you're the type of multitasking computer user who can never have enough onscreen real estate, the new Matrox Millennium G400 16MB 2-D/3-D graphics card could be the solution you've been seeking.

The $149-estimated card uses Matrox's DualHead technology, driving two monitors concurrently through its two DB-15 connectors. Alternately, you can use the included adapter to drive a monitor and a television at the same time. Two separate DACs also let two monitors simultaneously display different resolutions, color depths, and refresh rates—an ideal approach if one of your displays is an older monitor—as well as different applications.

Graphic artists will appreciate the DualHead Zoom feature, which lets you select a portion of the primary display and zoom it up to full screen on the secondary display. With DualHead DVD Max, you can watch a full-screen DVD movie on your TV, while leaving your monitor free for other tasks.

Driving the G400 is Matrox's own 256-bit DualBus G400 graphics accelerator with 16MB of SGRAM. On its primary display, the G400 supports resolutions up to 2,048x1,536 at 32-bit color with a 60Hz refresh rate and is capable of pushing the secondary display up to 1,280x1,024 at 32-bit color and 60Hz. The G400 has a maximum 3-D setting of 1,600x1,200 at 32-bit color and 100Hz, and it includes 3-D Environment Bump-Mapping support.


The Millennium G400 16MB can simultaneously drive two monitors, or a monitor and a television.

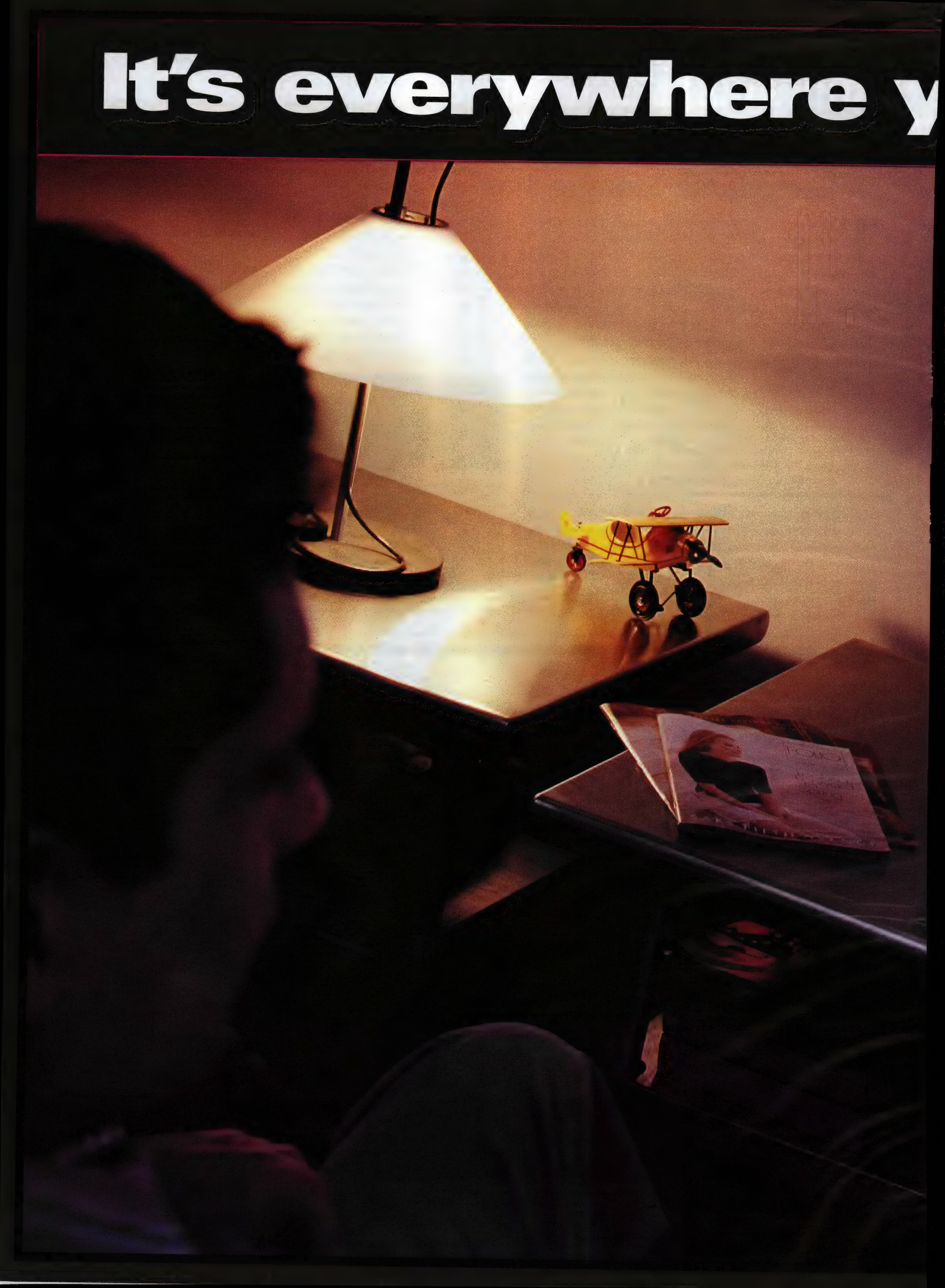
Business users will applaud the multiple-monitor support, and gamers will appreciate the G400's AGP-texturing support, true 32-bit rendering, and optimizations for Intel Corp.'s Streaming SIMD Extensions (SSE) and AMD's 3DNow instructions. And both parties will appreciate the G400's high test scores. On our 450MHz Pentium II testbed, the G400 posted a 3D WinMark 99 score of 806, just slightly less than the 828 result of our Voodoo3 3000 reference card.

In anecdotal game testing, the G400's Incoming score matched the Voodoo3's 80 fps almost exactly, but the G400's 52-fps frame rate lagged behind the Voodoo3's 74 fps. Nevertheless, games using very large texture maps or running at high resolutions will probably fare better on the G400 due to its support for AGP texturing. The G400's score of 167 on 2-D Business Graphics WinMark 99 is comparable to those of other cards we've seen recently.

Although the software bundle was unavailable at press time, Matrox says it will include Micrografx's Simply 3D and Picture Publisher 8, Rage's Expendable, and a software DVD player. With its solid 3-D performance and inexpensive price, the Matrox Millennium G400 might just be the card to bridge the business and gaming worlds.

—Daniel A. Begun

SECTION CONTINUES ON PAGE 218


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IMATION CD-RW SUPER RECORDER 4X4X20

Get It Write the First Time

PRODUCT	Imation CD-RW Super Recorder 4x4x20
COMPANY	Imation Enterprises Corp. Oakdale, MN; 888-466-3456, 651-704-4000 www.imation.com
SUPPORT	Live toll-free phone support, 8 a.m. to 5 p.m. weekdays (CT); e-mail; Web
SUITABILITY	A fast, easy-to-use, and affordable drive for creating audio CDs or storing large amounts of data
AVERAGE PRICE	$319

When the first consumer CD-Rewritable (CD-RW) drives appeared a few years ago, they were slow, unstable, and cumbersome, and they cost nearly $1,000. Today they continue to become faster, less expensive, and more reliable. Imation Enterprises Corp.'s first optical drive, the CD-RW Super Recorder 4x4x20, is no exception. It reads discs as fast as a 20x CD-ROM drive, records at four times the speed of first-generation CD-RWs, ships with a comprehensive software bundle, and sells for an average of $319.

Ease of use is another strength. Inserting a blank disc automatically displays a menu of disc functions that transparently launches the drive's bundled software. If you want to use the disc as though it were an extra hard drive, the menu runs Adaptec's DirectCD packet-writing utility, which assigns the 4x4x20 a drive letter. Choosing to create an audio CD or a CD-ROM that can be read on other machines launches Adaptec Easy CD Creator's spiffy disc-building wizards. If you want to copy an existing disc, a copier wizard lets you perform the task with just a few clicks.

The 4x4x20's robust bundle also includes Adaptec's UDF Reader, which guarantees media compatibility with any MultiRead-certified CD-ROM or DVD-ROM drive. It also includes Tracer Technologies' Diamond Cut 32 (for cleaning up noisy audio recordings) and Seagate Software's outstanding Backup Exec data-archiving application. Rounding out the package are audio and data cables and blank samples of CD-R and CD-RW media to get you started.



The Super Recorder is fast, affordable, and easy to install, and it comes with a great software bundle.

Installation was straightforward. We simply set our evaluation unit's master/slave jumper, then attached the data, audio, and power cables. Finally, we screwed the drive into an external bay. Under Windows 98, the 4x4x20 immediately began functioning as a CD-ROM reader, which let us install drivers and applications from the Imation software CD. All connections were clearly labeled on the top of the drive, and the entire procedure took less than 30 minutes.

Performance on our 450MHz Pentium II testbed was excellent. Running at its top 600K/sec speed, the drive created a CD-R disc containing 645MB of data—7,500 files—in under 19 minutes. A full 650MB single-drive disc-to-disc copy required 34 minutes and only one disc swap, and a 48-file, 53MB Disc-at-Once write took a mere 2 minutes and 45 seconds. Storing a 508MB assortment of 5,530 files on a 529MB piece of CD-RW media required about 21 minutes.

The CD-RW Super Recorder 4x4x20 is the easiest-to-install, most stable CD-RW we've tested, and had no trouble reading every CD-R, CD-RW, audio, and CD-ROM disc we threw at it. It also boasts a comprehensive software bundle, excellent documentation, and a competitive price. ***—Don Labriola***

CANON CANOSCAN FB 620U

Light and Easy Scanning

PRODUCT	Canon CanoScan FB 620U
COMPANY	Canon Computer Systems Costa Mesa, CA; 800-652-2666 www.canoscan.com
SUPPORT	Live phone support, 8 a.m. to 10 p.m. weekdays, noon to 6 p.m. Sat. (ET); BBS; Web; one-year parts-and-labor warranty
SUITABILITY	A compact scanner suitable for beginners and home users with limited desk space
AVERAGE PRICE	$128

The Canon CanoScan FB 620U flatbed is the latest example of the scanner industry's trend toward slimmer and lighter scanners. The 10.1x 14.7x2.5-inch (HWD) device, which sells for around $128, weighs just 4.4 pounds and handles documents of up to 8.5x11.7 inches. Canon has also made the scanning experience as painless as possible: The FB 620U's USB interface enables fast, easy setup, and you can program the front-mounted scan button to automatically scan a document in a single step.

The CanoScan FB 620U uses contact-image-sensor (CIS) technology that provides up to 600-dpi optical resolution and interpolates up to 2,400 dpi. Canon's LED InDirect Exposure (LIDE) CIS technology is designed to reduce the size of the scanner by using fewer moving parts, which the company claims increases the device's durability, image illumination, and color fidelity.

Setting up the CanoScan FB 620U couldn't have been easier. A single USB cable connected the scanner to our 450MHz Pentium II-based testbed system with 64MB of RAM. The scanner ships with Canon's Creative CD-ROM, which installs the required drivers as well as copies of Adobe PhotoDeluxe Home Edition, Canon ScanGear, ScanGear Toolbox CS, and ScanSoft TextBridge Plus OCR software. Installation of the entire suite took about 10 minutes.


With its slim design and simple USB setup, the CanoScan FB 620U makes light work of scanning.

Scanning a 4x6-inch color photo took about 45 seconds when using the scanner's highest color depth (36-bit) at 600 dpi. The image was extremely crisp and sharp, with accurate color reproduction. We easily made slight color, contrast, and brightness adjustments by selecting thumbnail views of the image with certain attributes changed, such as adding a different tint or hue. Scanning the same document at 24-bit color took only 5 seconds less, with no apparent change in image quality.

It took 32 seconds to scan our test newsletter document using the 300-dpi, 12-bit gray-scale setting, which produced a clean, well-defined image. Converting the image to text via ScanSoft's TextBridge Plus OCR software took another 40 seconds. We found about 15 recognition errors, which, for the most part, involved contractions and the letters *m* and *r*. Another one-page document yielded a similar error count, with the same types of mistakes.

The CanoScan FB 620U doesn't support higher-end 9,600-dpi interpolated resolutions, and it isn't the fastest scanner available. But most small-business and home users will find its small size, convenient USB hookup, and simple wizard-driven interface highly appealing.

—Keith Kirkpatrick

SECTION CONTINUES ON PAGE 220

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RICOH RDC-5000

Point and Shoot in Style

PRODUCT	Ricoh RDC-5000
COMPANY	Ricoh Corp. Sparks, NV; 800-225-1899, 775-352-1600 www.ricohcpg.com
SUPPORT	Live toll-free phone support, 7 a.m. to 10 p.m. weekdays, 10 a.m. to 7 p.m. weekends (ET); one-year limited warranty
SUITABILITY	A good choice for buyers who need high-end point-and-shoot features at a midrange price
MFR. EST. PRICE	$699
beta	Lens hood and rechargeable batteries missing

beta The Ricoh RDC-5000 isn't likely to leave many buyers wanting for features: This new point-and-shoot digital camera boasts an optical resolution of 1,792x1,200 pixels, an integrated 2.3x zoom lens, dual viewfinders, and serial- and USB-port connectivity. Ricoh estimates the camera will sell for an aggressively low $699.

Although it weighs only 11 ounces, the RDC-5000 feels reassuringly solid. A control dial near its right top panel clicks nicely as you turn it, recalling the silky mechanics of a high-end 35mm model. Protective covers for the lens and the 1.8-inch LCD viewfinder automatically close when you turn off the camera, but expect LCD smudges anyway: The LCD's location makes it difficult to avoid touching the panel with your nose when you use the optical viewfinder.

The RDC-5000 comes with 8MB of internal memory, but at its highest quality settings, the camera can fill all 8MB in about 10 shots. So if you intend to shoot at the full 2.1-megapixel resolution, plan on buying one or two SmartMedia cards. (The camera can accommodate SmartMedia cards with capacities up to 32MB.)



The RDC-5000 lets you focus on objects as close as 1.6 inches without switching into Macro mode.

During our hands-on testing, the RDC-5000 was able to snap one picture every 11.5 seconds at the highest image setting and with the flash enabled—fairly quick for a point-and-shoot model. It also required about 1.5 seconds to capture an image after the shutter release button was pushed.

The camera's integrated nine-element zoom lens lets you work at 35mm-equivalent focal lengths of 38mm to 86mm. One unusual feature is the lens' ability to focus on objects as close as 1.6 inches without having to be put in a separate macro mode.

On the other hand, our test unit seemed especially prone to glare. The shipping product will include a lens hood, but this accessory was missing in our early production model.

The RDC-5000 provided accurate color reproduction for both indoor and outdoor shots. We did notice occasional artifacts, but tone and texture were good overall at most typical settings. The camera includes the requisite image-transfer utility and TWAIN drivers as well as ArcSoft's Camera Suite, a fairly basic suite of image-editing and management software.

The Ricoh RDC-5000 offers noteworthy features like two monochrome modes and the ability to capture successive images unattended at a specified interval. Its easy-to-use close-focus capabilities and comfortable, solid design make it a fine choice for shooting high-resolution images.

—Mitt Jones

HP DESKJET 812C

Photo Quality Priced Less

PRODUCT	HP DeskJet 812C
COMPANY	Hewlett-Packard Co. Palo Alto, CA; 800-752-0900, 650-857-1501 www.hp.com
SUPPORT	Live phone support, 6 a.m. to 10 p.m. weekdays, 9 a.m. to 4 p.m. Sat. (MT); fax; Web; one-year parts-and-labor warranty
SUITABILITY	Suitable for mainstream users who require high-quality color output
MFR. EST. PRICE	$199

Home and small-business users no longer need to choose between a low-cost inkjet and a photo-quality printer. Hewlett-Packard Co.'s new DeskJet 812C offers an appealing blend of the two, along with an extraordinarily simple setup process.

Colorful posters detail every step of the process for setting up the printer, which connects to your computer using either a parallel-port or USB connection, although neither cable is included. We tested the 812C using the USB connection on a Sharp Actius 233MHz Pentium II notebook PC with 64MB of RAM. After snapping the printer cartridges into place and connecting the cords, the printer was recognized instantly. All told, it took less than 15 minutes to get the 812C out of the box and start cranking out copy.

The resulting output looked great. To produce photo-quality results, the 812C uses HP's proprietary Photo Resolution Enhancement color-layering technology (PhotoREt II), which can place up to 16 drops of ink on a single pixel and blend the colors to accurately reproduce almost any given color shade. To get the most out of this technology, you must set the printer for "best-quality" output (HP doesn't give dpi ratings for color printing) and tune it to the paper you are using. We tested the 812C's photo-printing abilities on a variety of HP paper stocks, including inkjet-premium, photo, and premium-photo paper. Although we noticed some banding about the width of a cartridge when using the default settings, the output truly rivaled that of a photograph when printing in the highest-quality setting.


The HP DeskJet 812C strikes a good balance between inkjet and photo-quality performance.

HP rates the 812C at print speeds of 6.5 ppm in black and 4.5 ppm in color. In our hands-on testing, the 812C printed 12 pages of heavy text in just under 4 minutes at 600x600 dpi, yielding a 2-ppm rate. Our Microsoft Publisher document with a mix of gray-scale and color graphics, as well as regular text, took an average of 1 minute and 24 seconds to print.

The 812C comes with an assortment of added software, including Juno's online services, a three-month subscription to Disney's Club Blast, and HP Instant Delivery, which automatically delivers printed versions of selected Web pages.

The DeskJet 812C is ideal for PC users looking for good photo-quality and text printing at a reasonable price. You can buy a better photo printer, but at $199, the 812C's output quality makes it a definite contender for both home and small-business users.

—Dan Costa

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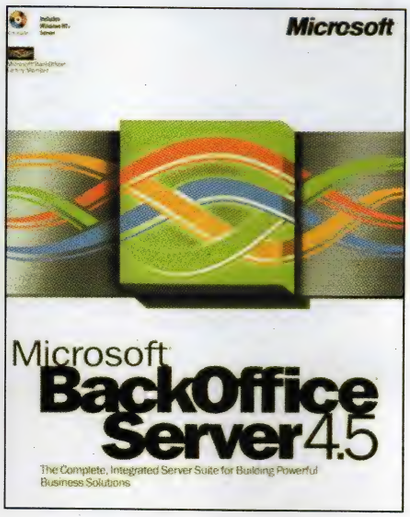
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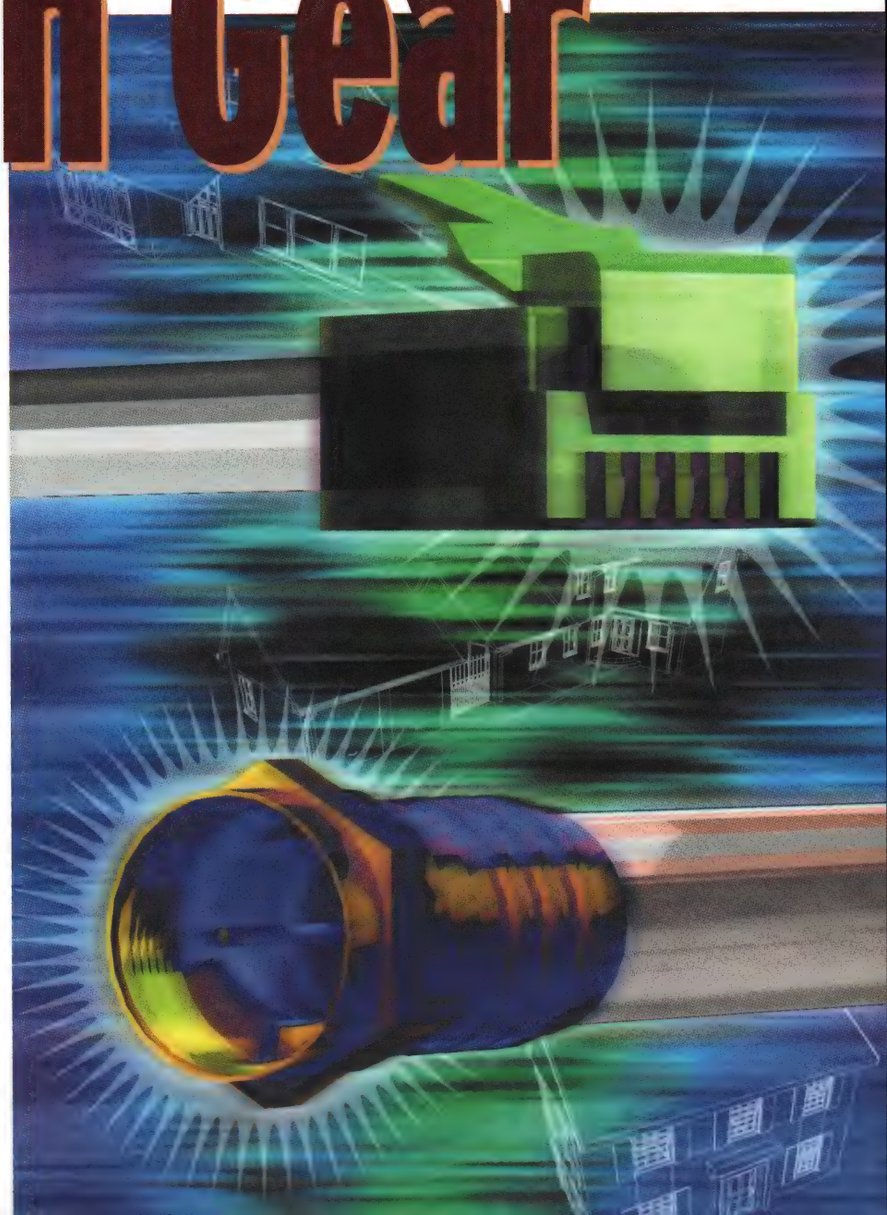
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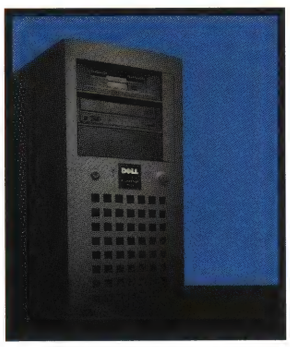
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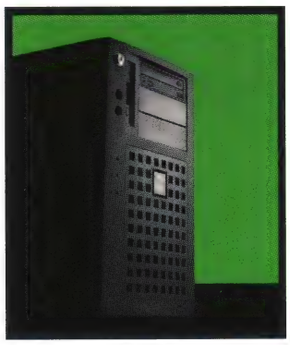

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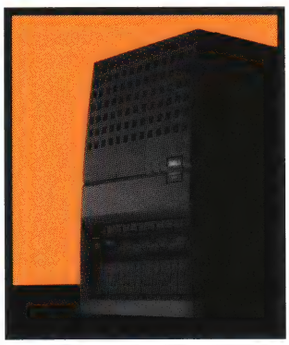
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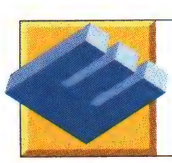
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- Tool-Free Opti-Frame Midsize Desktop Chassis
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- 4MB ATI RAGE Pro AGP Graphics
- 40X Max[5] Variable CD-ROM Drive
- Sound Blaster Pro Compatible Sound
- MS IntelliMouse
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Business Lease[15]: $54/Mo., 36 Mos.

E•VALUE CODE: 05624-390715

DELL OPTIPLEX G1 433L

Network-Optimized Desktop

- Intel Celeron Processor at 433MHz
- Tool-Free Opti-Frame Low-Profile Chassis
- 64MB SDRAM
- 6.4GB[4] SMART Ultra ATA Hard Drive
- 17" (16.0" viewable, .27dp) M770 Monitor
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TRENDS

Entering the SWAP Meet

With SWAP 1.1, wireless home networking will gain ground against competing consumer networking technologies.

The **HomeRF Working Group** recently announced the **Shared Wireless Access Protocol (SWAP) 1.1** specification for home networking, a move that should finally speed development and adoption of HomeRF-based products.

The SWAP specification is an open "over-the-air" interface for data and voice that lets various consumer devices—including PCs, PDAs, peripherals, and cordless telephones—interoperate in a home environment.

SWAP 1.1 incorporates several new changes, such as relaxing the 1-megabit throughput requirement by 20 percent so that manufacturers can engineer SWAP-compatible products more quickly. It is expected that they will start to hit the market late this year. This could signal a turnaround for the adoption of HomeRF, which has been held back by limited distance capabilities, structural barriers, and cost. With SWAP 1.1 updates, though, we may see greater distances and reduced costs.



All SWAP-compliant products will operate in the 2.4GHz frequency band and rely on frequency-hopping, spread-spectrum RF technology. The spec will let manufacturers build wireless connectivity into consumer electronics and small home appliances, enabling them to share PC resources.

The primary consumer use of SWAP products will be to create wireless home networks for sharing data and voice over PCs, PDA/phone hybrids, and new devices such as remote display pads. Because of voice-control capabilities, users will eventually be able to activate other home-electronic systems by speaking a command. Multiplayer games and toys based on PC and Internet resources will also emerge.

The coolest aspect is that shared Internet access will be available from anywhere in and around the home from the portable display devices. And as wireless Internet access from handheld devices becomes more common, features that arise out of SWAP-compatible devices—reviewing incoming calls; checking e-mail; and forwarding calls to multiple handsets, fax machines, and voice mail, for instance—will take on an even greater importance. Plus, it is a complimentary technology to HomePNA.

Proxim was the first company to announce plans to add SWAP 1.1 support to its networking line. Proxim's **Symphony Cordless Networking Suite,** a bundle that includes a USB adapter for desktop PCs, a PC Card for notebooks, and a miniature module for radio integration with broadband Internet gateways, is due out this winter. The package will ship with **Harmony** bridging software for backward-compatibility with the current Symphony line and interoperability with Proxim's **OpenAir** wireless LAN devices. This means that a user can bring a laptop home from the office and immediately connect with any SWAP-enabled home network.

Motorola, which has a $10 million stake in Proxim, will be working with the company to deploy wireless broadband Internet access to small offices and homes. The companies will demonstrate prototype broadband gateways that enable simple-to-install wireless SOHO and home networking this summer. Likewise, **IBM** will be integrating HomeRF support into its **Aptiva, Home Director,** and **ThinkPad** product lines by early 2000.

ACTIVE LINKS

www.matisse.net/files/glossary.html . . . *Glossary of networking and Internet terms*

www.sss-mag.com/index.html. . . . *Comprehensive RF, spread-spectrum, and wireless networking resource*

Despite this support for SWAP, HomeRF still has its critics, such as **Lucent,** which is backing an IEEE 802.1 variant. Others note that although SWAP offers both data and voice, it relies on two RF protocols, the Digital European Cordless Telephone (DECT) standard for voice and IEEE 802.11 for data. This could raise the cost of products and increase complexity. But the 90-plus-member HomeRF consortium, which includes **Compaq, Hewlett-Packard, Intel,** and **Microsoft,** says it's working to combine DECT-based voice and 802.11 packet data on the same 2.45GHz frequency-hopping wireless net to control costs.

—Stephanie Izarek

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NEWSBITS

SMS SERVERS GET PREPPED

Microsoft is enhancing its **Systems Management Servers (SMSs)** to boost manageability in preparation for the release of Windows 2000. The **SMS 2.0** upgrade offers integration with Windows NTDS, IntelliMirror, and OnNow, in addition to multicast support. Microsoft also will build in improved network discovery support for **Bay, Cisco, Macintosh,** and **3Com** products. It also provides Proxy support and NT EventLog Events. A future upgrade, code-named **Diamond,** will offer full integration with Windows 2000 Active Directory.



Palm VII

BEACH-SIDE NETWORKING

The debut of the **Palm VII Connected Organizer, 3Com Corp.'s** handheld device for wireless Internet and e-mail access, made waves, but the $599 device is currently available only in retail stores in Connecticut, New Jersey, and New York. It should be available everywhere in the continental United States by late fall. You can request 3Com to alert you when the Palm VII is available in your area by signing up at 3Com's Palm Web site (*www.palm.com*). Likewise, the Palm.net Wireless Communication service is currently in place for 260 metropolitan areas, and there are regularly updated maps to confirm service coverage in areas to which you may be traveling. ▼

ILLUSTRATION BY TIM ALT

Increase Your

Broadband technologies are revolutionizing the way at-home users access the Internet.

BY JAN OZER

For most Web surfers, accessing the Internet from home is like sipping a milkshake through a tiny cocktail straw: What you taste is great, but you can't drink it fast enough. Having a speedy connection at work only heightens your frustration, making the delays that plague your at-home experience seem even longer.

ISDN, once thought to be the answer to high-speed Internet access, was never really targeted at consumers, and it took a long time to take off even in corporate markets. It offers 64Kbps connection speeds and can reach up to 128Kbps when two lines are bonded together. However, most ISPs charge extra for the dual-line connections necessary to achieve 128Kbps—and even that maximum is slower than today's more promising broadband options. Furthermore, though pricing varies widely around the country, ISDN usually costs $100 or more per month, which is more expensive than the increasingly popular high-speed alternatives: asymmetric digital subscriber line (ADSL) and cable services.

DATA DELIVERY

Today, ADSL and cable offer the promise of lower-cost, high-speed Internet-access solutions for home users. The players in this industry are rolling out offerings across the country, but coverage is still spotty. Some regions will have one technology or the other as an option, but few areas currently offer the luxury of both. Luckily, these services continue to reach an ever-expanding range of consumers. At the end of last year, less than 500,000 people were accessing the Internet via such high-speed connections, but research firm The Yankee Group predicts that figure will exceed 7 million users by 2002.

Several factors are driving these numbers up. For starters, the Internet's trove of information and e-commerce offerings has whetted the public's voracious appetite for high-speed access. But competition is arguably the greatest catalyst. The Regional Bell Operating Companies (RBOCs) provide ADSL, and their neck-and-neck race with cable companies is forcing them to act quickly. With cable companies now offering local phone service, the RBOCs are motivated by the fear that ceding Internet service to cable operators could threaten their hold on local phone service. For cable companies, the proposition of getting approximately $40 more per month from current customers has sparked interest in laying Internet-compatible cable and upgrading previously installed facilities.

The technology and usage issues driving broadband adoption center around new standards—for the modems in both camps—that are lowering equipment costs and simplifying installations in the home. Initial trials for both technologies have shaken out several bugs, and now both ADSL and cable providers are aggressively expanding their service regions. As a result, the prospect that reliable high-speed access will be available in your area sometime over the next 12 months is increasing. (See the sidebar "Where Connections Are Possible" for more.)

When it comes to performance, both technologies deliver 25 times the download speed of a 56Kbps modem with an always-on connection that's instantly available whenever your computer is running. They deliver a caliber of performance that can significantly shift your computing paradigm, letting you download entire albums of music in minutes, test new software and games with impunity, and transfer files in a flash. Yet as attractive as these scenarios sound, there are still some issues to contend with when using broadband technologies. Specifically, you can expect possible security risks and higher monthly costs along with your increase in speed. Also, questions abound regarding how increased

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ILLUSTRATIONS BY TIM ALT


Net
Speed

demand will affect performance.

Another caveat for some may be the lack of amenities broadband providers offer. Many of us have come to expect a full range of services from our Internet service providers (ISPs), like server space for our personal home pages, toll-free numbers for out-of-town access, and the ability to share our Internet connection over a home network. Many of these options might not be available from your high-speed provider.

So though the prognosis is undeniably positive, you should carefully weigh your decision to drink from the broadband straw. Before abandoning your current ISP, for instance, investigate the issues surrounding the technologies so you can be sure you're making the right move.



CABLE BASICS

For current cable-TV customers, adding cable-modem service will cost roughly $40 more per month, about $20 more than typical monthly ISP charges. This is an incredibly small price to pay for the dramatic boost in performance, but you'll probably have to change ISPs. Cable Internet services can run in tandem with cable-TV services, so you'll be able to watch TV and surf the Net at the same time. However, if one service is interrupted, so is the other.

There are two versions of cable service. The first type of cable modems are "telco-back," meaning they use cable for downstream traffic and a dial-up modem to transmit back to the Internet. Several cable vendors still offer this type of service, but more recent installations, built on two-way fiber-optic cabling, transmit and receive via cable. Both systems are asymmetric, which means that download and upload speeds differ, with significantly faster download speeds. In theory, the fastest cable systems have maximum download speeds of about 40Mbps to 42Mbps. However, in our own ad hoc testing, we were only able to achieve 600Kbps download speeds.

Upload speeds also vary by system, with a maximum of around 10Mbps; telco-back systems are naturally limited to the speed of the dial-up modem. Most cable services, however, won't quote performance numbers or guarantee a certain performance level in either direction.

Cable-modem connections are always on, so when your computer is running, you can instantly check e-mail or browse the Web without first connecting. However, instead of having a static IP address, many services assign an IP address dynamically when you log onto the system, which complicates the prospect of hosting a Web site.

SHARED ARCHITECTURE

Cable modems use the same shared network as cable TV, which connects groups of 500 to 2,000 users in a neighborhood via coaxial cable in a "fiber node." This fiber node terminates at a distribution hub, or "headend," that is connected to the main cable plant by fiber-optic cable. To provide Internet services, most cable headends must be upgraded to handle two-way traffic and to route data to and from the Internet. Cable providers can also install Web servers at the headend to distribute high-bandwidth content and cached data, providing an extremely fast connection to customers.

TV signals broadcast over cable don't degrade as additional users sign on because everyone uses the same signal. However, because all Web surfers want their own specific data, additional users grab their own chunk of available cable bandwidth. As a result, performance degrades as more users come online.

The amount of degradation users experience is debatable, and it's still difficult to tell whether reports of slow download speeds are caused by normal startup problems or by too many users. As far as overloading is concerned, cable companies can pursue two options to improve performance: They can dedicate additional channels of the cable connection to Internet services to boost capacity by a maximum of 42Mbps, or they can split the fiber node into two nodes—thus creating smaller groups on the same server.

HOOKING UP

Cable Internet service is typically provided by a partnership between your local cable company and third-party ISPs like @Home and Road Runner, although some cable vendors, like MediaOne, do provide both services. Internet access charges are typically billed through your cable company, so you receive only one bill for both cable-TV and Internet services.

In most cases, choosing cable means leaving your current ISP, but there are exceptions. For instance, MediaOne lets you retain an America Online account, and some ISPs, like EarthLink, offer cable-modem services. If you change to a cable-specific ISP, it will likely be dedicated to creating multimedia content, like audio, video, and still images that take advantage of the high-bandwidth connections it offers. You'll probably also receive news, chat, e-mail, and personalization capabilities with your account, all of which are great added values if you're just looking for a high-speed connection to augment your current use of the Internet. If, on the other hand, you're thrilled with your current dial-in ISP, the cable option may not be as appealing.

Most cable modems connect to the computer via an Ethernet card, though models connecting via USB are on the horizon. Today, almost all cable-modem installations require a visit from service personnel; however, a new standard called Data Over Cable Service Internet Specification (DOCSIS) will ultimately allow many users to install their own. Currently, few cable providers use DOCSIS modems, but that should change quickly once the modems are proven in the marketplace.

Typical installation charges range from $99 to $175, but you may find the installation fee waived during promotions. For subscribers already receiving cable-TV service, monthly fees range from $29.95 to $49.95, depending on the region. Expect to pay approximately $10 more per month for Internet service if you're not a cable-TV subscriber. These prices usually include lease payments on cable modems, but you may be able to purchase your own for $200 to $300, and rates should drop by about $10 a month if you do so.

SECURITY AND SERVICE WATCH

Because cable is a shared network, it poses two potential security problems: Other users might be able to access your

ILLUSTRATION BY ROSE ZGODZINSKI

data as it is transmitted over the shared cable, or they might be able to access the data on your hard drive. Though the new DOCSIS specification incorporates RSA public-key encryption to secure communications over the cable network, it does not protect you against others accessing your hard drive. Although it might hinder operation in a LAN environment, you can turn off Windows' file-sharing feature on your computer to prevent such unauthorized access. (For more on broadband security issues, see "Risk-Free Broadband Access.")

All new technologies have uncertainties surrounding their deployment, and many people are questioning cable companies' quality of service. So if connectivity is mission-critical, you'd be wise to maintain a backup conduit through a dependable ISP. Still, if your surfing activities are primarily casual, cable offers potentially faster access than most ADSL offerings, often for much less money.



THE ADSL ALTERNATIVE

For home users who want to access the Internet at higher speeds than traditional analog modems allow, the other option is ADSL. If ADSL is not available in your area now, expect to see it soon. ADSL is an asymmetric service that provides 8Mbps downstream performance and a 1.544Mbps back channel. In informal testing, we achieved 600Kbps downstream performance. The service runs over the DSL spectrum on existing copper phone lines. It uses a separate channel than voice calls, so you can surf the Net and chat on the phone simultaneously on the same line.

ADSL supports two incompatible modulation techniques: carrierless amplitude and phase modulation (CAP), and discrete multitone (DMT). CAP sends all data down a single channel, which is the simpler and cheaper approach, but it's slower than DMT. CAP was the first of the two to be implemented and was used in many early ADSL trials.

DMT is the internationally recognized standard, and most of today's trials and deployments are DMT-based. DMT divides the DSL spectrum into 256 subchannels, measuring the noise levels on all channels and prioritizing data delivery over those channels experiencing the least noise. DMT is more efficient but is also more expensive to implement, although pricing may improve as DMT chip sets become available. It isn't likely that you'll have a choice between these two standards, but because a service provider installs all ADSL modems, compatibility with your provider is essentially assured. The only time compatibility issues might arise is if you move to an area with service providers using the other ADSL modulation technique.

The costs for ADSL are quickly becoming equivalent to those of cable services in some areas. For example, Pacific Bell's FasTrak DSL costs $39.95 per month, and BellSouth's FastAccess service is available for a $49.95 monthly fee. Unlike most cable plans, which offer simple fixed prices, ADSL costs can vary depending on guaranteed speed, choice of ISP, and other factors.

ARCHITECTURALLY SPEAKING

Once deployed, ADSL shares the same architecture as voice and data calls, which use local central offices (COs) to connect to the telephone wires from area homes and businesses. To receive the DSL signal, central offices must be upgraded with digital subscriber line access multiplexers (DSLAMs) or similar DSL receivers. At the CO, the DSLAMs route the DSL signal to the Internet, usually via ATM; voice calls are normally routed through the voice switch.

Though ADSL connections aren't shared like cable-modems', traffic bottlenecks can occur if the ATM bandwidth from the CO to the Internet can't accommodate all ADSL traffic. Like cable service providers, ADSL providers can easily resolve this problem by adding bandwidth to the Internet at the CO. With ADSL, the security risks are minimal. The reason: All ADSL connections are point to point—DSL modem to DSLAM—rather than using a shared network as cable modems do.

ADSL modems must be installed no more than 18,000 feet from the CO. This requirement is measured in cable feet—as opposed to as the crow flies. It limits use in some rural and suburban areas because of all the required twists and turns on the telephone wire.

Though ADSL doesn't suffer from the same poor service stigma that cable sometimes does, it is not completely exempt from service interruptions. In fact, ADSL service can go down even when your phone lines are working perfectly.

IN YOUR HANDS

Today all ADSL modems are deployed by a technician who also installs a splitter to route the DSL spectrum to your ADSL

(continued on page 230)

Broadband Defined

ADSL: DSL technologies enable high-bandwidth communications over ordinary copper phone lines by using the DSL spectrum rather than the voice spectrum used by analog modems. ADSL (asynchronous digital subscriber line) is an asymmetric variation of DSL with download speeds of about 8Mbps and a 1.54Kbps back channel. Currently, ADSL modems require a splitter installed in the home to separate the two spectrums.

CAP: A standard for ADSL that specifies that all data be sent down a single channel, CAP (carrierless amplitude and phase modulations) is an inexpensive but slow and simple way to channel data through the DSL spectrum.

DMT: The competing—and approved—standard to CAP. DMT (discrete multitone) divides the DSL spectrum into 256 subchannels, measures the noise levels on all channels, and then prioritizes data delivery over the channels experiencing the least noise. This is a more efficient medium for data transfer, yet its implementation will be more expensive until DMT chip sets become widely available. Most ADSL rollouts are using, or switching to, DMT.

DOCSIS: Finalized in October 1998, DOCSIS (Data Over Cable Service Interface Specification) is a standard interface between cable lines and cable modems that allows end users to install their own cable modems.

DSLAM: ADSL requires a point-to-point connection between two ADSL devices. DSLAMs (digital subscriber line access multiplexers) installed in telephone-company central offices provide a communication point for hundreds of home-installed ADSL modems. They also route this traffic to and from the Internet.

G.Lite: An industry-standard derivative of ADSL. G.Lite modems can be installed as simply as a traditional analog modem because they separate the DSL and voice spectrums internally, rather than relying on an external splitter. G.Lite is slower than standard DSL, limited to 1.544Mbps download speeds with a 384Kbps back channel.

ISDN: ISDN (Integrated Services Digital Network) is a technology capable of delivering digital communications over copper phone wires at speeds up to 128Kbps.

RBOC: When AT&T was broken up in 1983, the federal court initially created seven RBOCs (regional Bell operating companies) to handle local phone service; AT&T corporate retained long-distance service. ▼



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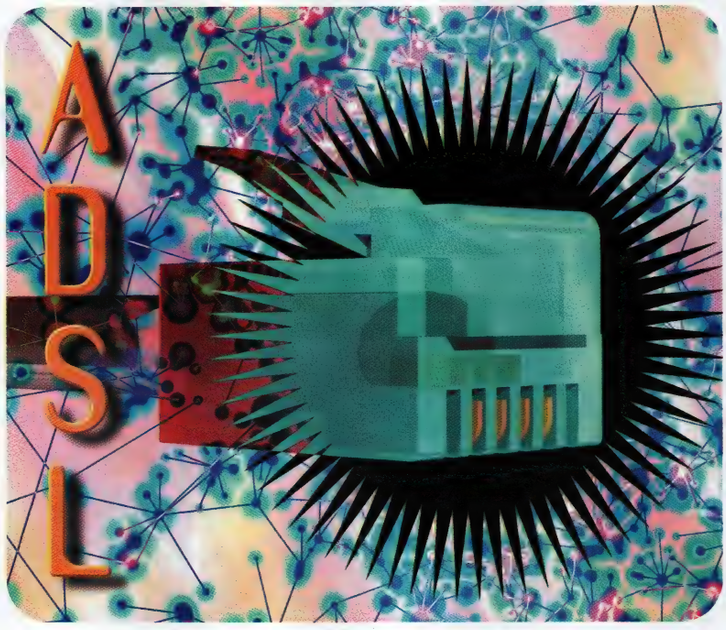
modem and the telephony spectrums to your telephone. However, the International Telecommunications Union (ITU) standards body recently approved G.Lite, an ADSL derivative that allows for modems that split the signal internally. G.Lite versions of the service can be installed just like most analog modems, so you'll be able to do it yourself.

Based on DMT technology, G.Lite offers 1.5Mbps maximum download speeds and a 384Kbps back channel. The caveat: Once installed, G.Lite modems aren't upgradable. To obtain full-speed ADSL, you'd need to install a splitter and replace your modem.

ADSL service providers can install ADSL DSLAMs in the COs that handle both ADSL and G.Lite, or G.Lite-specific DSLAMs that work only with the slower-speed service. G.Lite DSLAM equipment is less expensive, takes up less space, uses less power, and generates less heat—all of which enable more connections in the space-limited COs. However, when G.Lite DSLAMs are installed, the higher-speed ADSL service isn't available. So be sure you know what you're getting.

NAVIGATING A BUYER'S MARKET

Unlike cable companies, which own exclusive rights to their cable lines, the Telecommunications Act of 1996 forces RBOCs to sell access to their networks to competitors. Once an RBOC has set a tariff for access, any company can install the necessary equipment in a CO and offer ADSL services to local customers. In many areas, this has increased the number of ADSL vendors and product offerings. For example, more than seven vendors offer ADSL in the San Francisco Bay Area alone. Recent national ADSL deployment announcements by AT&T, GTE, and MCI WorldCom will make for a more crowded and confusing market.



If you're in the enviable position of comparing ADSL alternatives, you'll have to check several factors to make sure you're comparing similar packages. For example, some vendors reduce monthly payments for long-term commitments, and others charge you extra for an ISP. Some services promise minimum connection speeds, for instance Pacific Bell's ADSL, which guarantees either 384Kbps or 1.5Mbps download speeds depending upon pricing plans. Be sure to ask how compliance with these minimum guarantees is measured, how you prove they are not being met, and what your rights are if you prove these minimum speeds aren't being maintained. The fees for another service, Atlanta-based Abraxis Internet, are partly tied to certain data-throughput limits—you pay $59 per month, and you'll be charged extra for any transmissions exceeding 1GB per month. Finally, some services offer specialized pricing for combined services. For example, BellSouth's FastAccess service costs $49.95 if you're a customer of Complete Choice (a fee-based service for call-waiting and similar extras) and $59.95 if not.

Also be aware that most ADSL installations require you to buy a modem, which typically costs $200 to $400 on top of installation charges. Like cable, ADSL connects through an Ethernet card, which may add about $100 to your overall startup costs if you don't currently have one.

There are many factors involved with signing up for ADSL service, so you need to explore your options, ask questions, and read the fine print before signing up. (See the sidebar "Before You Sign..." for more questions to ask a potential provider.)

DRINK UP

The great news is that cable or ADSL access, or both, are likely to be available in your area within the next 12 months, delivering quantum boosts in access speed. To shift your at-home connection into the fast lane, contact your phone and cable companies to find out what's available in your area and research all aspects of the services available to you. Whether you opt to take the plunge now or wait for better service and more options, you can rest assured that there will be a data hose ready to oust that cocktail straw when you're ready for some serious sipping. ▼

Before You Sign...

When you shop for broadband access, you're shopping for a provider. Here's a list of questions to ask potential providers before signing on the dotted line. In addition to asking these questions, be sure to read the cancellation provisions in your contract carefully. If service turns out to be unsatisfactory—or much cheaper solutions become available—you'll want to be able to cancel without incurring substantial penalties.

STAGE ONE

- What are the system requirements?
- Is it necessary to buy the modem, or is leasing an option? Does leasing increase the monthly cost?
- Are extra costs levied against someone who is not currently a customer?
- Does the ISP offer a local phone number for dial-up access if the main connection goes down, or a toll-free number for traveling?
- What are the charges for local and remote connections?
- How long does it take for service to be activated?
- What are the promised upload and download speeds, and what can be expected on a regular basis?
- How does the ISP ensure that these rates are being met, and what recourse is available if they're not?
- Do monthly charges involve service-time commitments or the purchase of other services?
- Are ISP charges included in the monthly fee?
- Are there are any data-transfer limits?

INSTALLATION

- Is an Ethernet card necessary?
- If an Ethernet card is required and you already have one installed in your system, does the vendor have any previous experience with that model?
- If you'll be installing a new card yourself, which card or cards does the provider recommend for use with its service?
- Will additional wiring or the drilling of holes be necessary? If so, who covers the costs?
- If you'll be installing your own DOCSIS cable modem or G.Lite DSL modem, which model does the provider recommend?
- Who provides technical support during the installation?

BEYOND THE BASICS

- What's the maximum number of e-mail addresses provided?
- Are e-mail addresses static or dynamic?
- Is space available on a server for FTP and Web pages?
- Will it be possible to host a Web site through this high-speed connection?
- If you have a home network, can you share the connection over it?
- If shared access is allowed, is any hardware or software support provided for it? (Note: Most cable services allow Internet-access sharing, but won't install or support the hardware or software necessary to implement networked use. Many ADSL services prohibit networked sharing and may cancel your service if multiple users are detected. Others allow shared use in the home, but not for businesses.) ▼

SECTION CONTINUES ON PAGE 234

Starting at $99, it's power protection that pays for itself in seconds



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A-LIST PC Computing

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Risk-Free Broadband Access

BY RON PACCHIANO

Broadband options offer faster Net access, but with always-on connections, your data might be at risk. Here's how to get adequate protection.

The demand for faster Internet connections and increased bandwidth is at an all-time high, particularly for homes and small offices. In response, telecommunications companies are offering a range of broadband solutions to consumers, including cable modems, digital subscriber lines (DSLs), and digital broadcast satellite (DBS) devices.

These broadband options are still not available everywhere, but can greatly improve the online experience. However, if you're considering adopting one of these broadband solutions, in addition to investigating issues like availability, service options, and pricing, you also need to be aware of some potential security problems that can arise.

IN BRIEF ABOUT BROADBAND

DSL services are springing up around the country, and consumers are increasingly faced with options. Pricing on DSL service varies greatly, too, so definitely shop around before signing up with any service company. Cable modems' availability is growing too, and even with the somewhat-less-than-advertised speeds often delivered, cable is still five to 10 times faster than ISDN. Compared with the other services currently available, cable modems generally give you the most speed for your dollar. (For more information on pricing, see "Increase Your Net Speed" in this section.)

Unfortunately, cable-modem access is still relatively limited. If your local cable companies don't currently offer access in your area, give them a call and let them know there is a demand for it. You'll probably be told that Internet access is planned for the near future.

In most cases, when you subscribe to Internet access from a cable provider, a technician will come to you to install the cable modem and check the quality of your wiring. The cable technician will install a splitter onto your existing cable, allowing you to connect to the Internet while still using the wire for your cable-TV access. A cable modem will be installed on the coax cable at an outlet near your computer.

Almost any PC can be equipped to use a cable modem. The minimum requirements are a 66MHz 486 processor and 16MB of RAM, but a better bet would be at least a 166MHz Pentium system with 32MB of RAM. Also, unlike dial-up modems that use serial connections, cable modems require at least one Ethernet card to be installed in your system. The reason: Cable's bandwidth will easily overwhelm the 115Kbps capacity of a standard serial port. If your system is going to



participate on a LAN, then you'll actually need two cards installed in your PC—one for LAN connectivity, the other for Internet access. If you don't already have an Ethernet card installed, your cable company might also work with you to obtain one and possibly arrange for installation.

However, some companies won't even come to you until the NIC has been installed and configured. You might be asked to take your computer to a repair shop authorized by your cable company to perform this installation, or you can even do it yourself if you're comfortable opening your computer.

UNWANTED GUESTS

The most appealing aspect of broadband—the "always-on" connection—is also its biggest vulnerability. As with cable modems, Internet access happens over a shared cable network, so a continuous connection to the Internet can leave your data exposed. Other users can read data in transit or even access your hard drive. A determined person could even examine the files on your PC and do whatever they please with them, and you would not know until it's too late.

Some hackers have more insidious intentions than others and will capitalize on any opportunity to steal individuals' private records, such as online bank-account information. Normally, these types of attacks are prevented by the firewall maintained by your ISP, but if the firewall is not properly maintained, break-ins can happen.

Another problem occurs if your cable modem or DSL provider always assigns the same IP address to your modem. Most cable companies use a dynamic IP-addressing scheme, but they are often taking that address from a pool of one. That means that for as long as you use your modem, you will also be using the same IP address, which makes you much easier to identify. A hacker simply needs to ping a particular address to see if it's in use. If it is, and your connection is always on, you are open to a violation of private data.

When you use a dial-up account through an ISDN or 56Kbps modem to connect to an ISP such as EarthLink or NetCom, you are always assigned a dynamic IP address. This IP address becomes your identity only for the time you are on the Internet. So each time you dial into your ISP, you'll probably receive a different IP address from the pool that is assigned to the ISP.

This type of connection affords you a certain level of protection. Just as it's difficult for people to find you if they don't know your street address, it's equally difficult for hackers to target you if your IP address changes every time you log on. Because this is a new area, many companies are experimenting with various methods of IP addressing, so it's best to check with your cable or DSL provider to find out which type of addressing it uses.

The final issue to consider is that whenever you're online, your computer becomes a member of a wide-area network (WAN). So even though your cable company might have precautions in place to protect you from the outside world, you could still be at risk from other cable-modem subscribers who reside inside the firewall with you.

FEAR NOT

Despite the threats, there are ways to defend your data—and they are quite simple to implement. The easiest solution is to disable the File and Print Sharing option. File and Print

ILLUSTRATION BY TIM ALT

Sharing allows users on a LAN to share files on other users' local workstations. To disable File and Print Sharing in Windows, go to the Control Panel and double-click the Network icon. From the Configuration tab, click on the File and Print Sharing button. Make sure the box next to the option "I want to be able to give others access to my files" is not selected, and you're all set. The next time you start Windows, your files will no longer be accessible by any other user who resides on the same network as you do.

To further minimize the risk, you might want to force your modem to disconnect (or time out) from the Internet after you've finished browsing the Web. Even though you can prevent the cable modem from dialing up, you should still be able to ping it at any time so long as there's power to it. So to be completely safe, you should consider shutting down your computer when you're not using it. Admittedly, this negates much of the benefit of having a permanent Net connection, but it is your safest course of action.

For many users, disabling File and Print Sharing isn't the best option. It isn't uncommon for many families to have two or more PCs, particularly if the home is also a small office. Lots of home users, as well as small businesses, have created workgroups or small LANs. If you are one of the many households with more than one computer, you've probably also spent quite a bit of time contending for use of a single home phone line. Cable and DSL modems have plenty of bandwidth that multiple systems can share with no performance hit.

If you do have two or more systems, it's just not economical to pay for multiple modems and Internet accounts. At about $40 per month per connection, fees add up, and users in this category instead might want to consider setting up a proxy server. When using proxy services you can share a single Internet account and a phone line (or any other Internet connection, for that matter) with all of your computers simultaneously. This allows you to do away with additional phone lines, modems, or Internet access accounts. And most important, you'll no longer have to wait in line to access the Internet.

There are a number of proxy servers to choose from, each varying in price and functionality. Most of these servers are aimed at small-to-medium-size businesses, so they have a tendency to be somewhat pricey. A few options, however, are perfect for home users.

One of the most popular, most effective, and least expensive ones is WinGate 3.0, a proxy-server/firewall software package that allows you to share a single Internet connection with an entire computer network. Any type of Internet connection will do, including analog dial-up, ISDN, DSL, or cable modems, or even DBS connections. WinGate 3.0 essentially turns an existing computer on your network into an Internet gateway. The system does not need to be dedicated to proxy services, so it can still be used for other purposes.

Basically, WinGate uses two software components. The first one is the server component. It doesn't need to be installed on a real server like Novell NetWare or Windows NT Server; instead, it just needs a Windows or Windows NT workstation with TCP/IP configured and some type of Internet connection. The other component runs at the client workstations.

After WinGate is installed, network users will be able to access the Internet just as if the modem was physically connected to their workstations. What's more, if you're using a dial-up connection on the WinGate server, a network user can still initiate a connection to the Internet even if the modem isn't currently online. The Internet request will automatically cause the modem to dial the ISP and connect.

You can download WinGate 3.0 from *www.wingate.com*. It comes in a variety of packages: WinGate Home, WinGate Standard, and WinGate Pro. To evaluate the product, users need to obtain a license key via e-mail by filling out an online form. For most users, WinGate Home will be the way to go, and prices start as low as $39.95.

For online protection, WinGate 3.0 includes an integrated secure firewall component that prevents intruders from accessing your network through your Internet connection. It accomplishes this by working with the proxy server, which recognizes the IP addresses that reside on the internal and external networks, and manages interchanges between them.

The firewall component is available in all versions of WinGate 3.0. Advanced user-management tools also allow you to restrict Internet access, as well as record and audit Internet-usage records of all users on your network. The History view lets you see a summary of all Internet requests, including Web sites visited and the time a user spends online.

> Just remember, as with any new technology, the best way to protect your data is to stay as informed as possible.

The Pro version of WinGate 3.0 lets you specify access rights for individual users or groups of users, including which users have access to the various services. Wingate 3.0 can also deny access based on time, address, or specific URLs or sites. It has a ban feature that filters locations (based on rules set up by the administrator) to deny access to areas containing certain words or phrases. This can be helpful in preventing children from accessing sites that contain questionable material.

Another good solution is BeadleNet's $250 Home2000 Series. Home2000 lets users network multiple computers over existing telephone lines (via the HomePNA standard) and share a single high-speed Internet connection. It secures the multiple connections using firewall technology, without interrupting cable-TV programming or phone service.

For network security, Home2000 uses Stateful Packet Inspection technology, which filters all messages traveling between the Internet and the computers on your network, preventing unexpected packets from reaching the private side of the firewall.

Depending on the version you buy, Home2000 also offers virtual-private-network capabilities and a configurable firewall feature that lets you host a Web site or access individual computers on the home network from a remote site. You can also get Hacker Attack Denial of Service, which protects against attacks; Parental Control Block, for blocking inappropriate Web sites; or the Web Demilitarized Zone (DMZ), which offers added security for hosting a Web/FTP server with its own IP address.

Because HomePNA is a new technology, Home2000 gives you the option of using existing USB and Ethernet connections. An Ethernet card is necessary if you want to use the Ethernet port, but if you are using a cable or ADSL modem, your computer should already have a card installed.

PROCEED WITH CAUTION

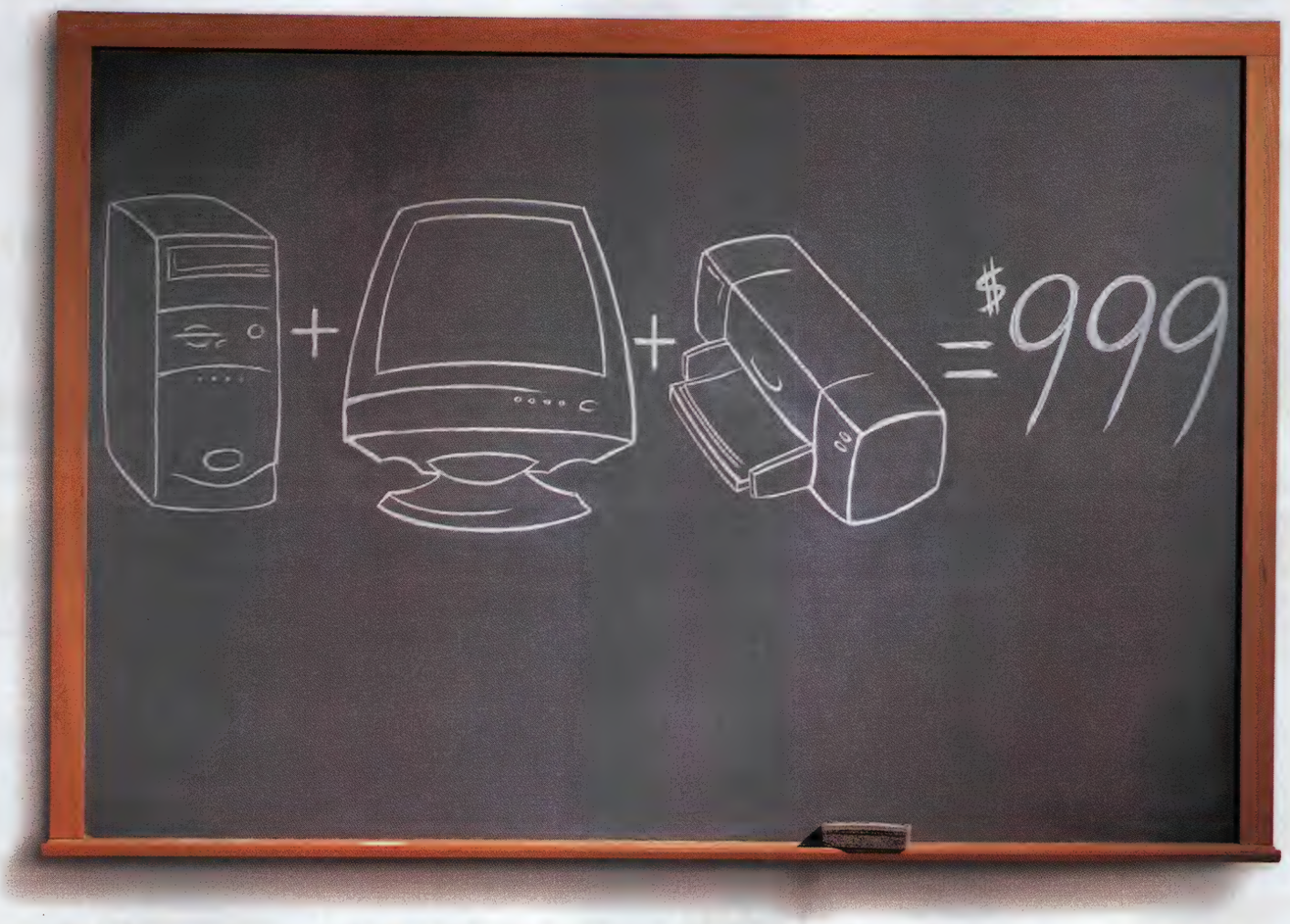
Broadband Internet connections are becoming more popular every day, and if they aren't offered in your area yet, odds are that they soon will be. Broadband technologies offer many advantages, the most valuable being tremendous bandwidth across multiple machines on a home network, with little or no impact on PC performance.

But these benefits do come at a price beyond merely paying for the service. Just remember, as with any new technology, that the best way to protect your data is to stay as informed as possible. So before investing in a solution, research it thoroughly.

Once you choose, you can protect yourself fairly quickly and inexpensively. Even with the effort you put into choosing and securing a service, broadband connections are a vast improvement over the analog modems most of us use today, and they should make future online experiences something to look forward to. ▼

SECTION CONTINUES ON PAGE 240

Do the Math



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[1]CD- ROM speeds are variable. Maximum speed shown.

[2]Maximum data transfer rate may vary due to the particular modem you are communicating with, telephone lines and communication protocols.

[3]Microsoft Office 2000 Small Business includes Word 2000, Excel, Outlook 2000, Publisher 2000, Expedia Streets 2000 & Small Business Financial Manager 2000.

[4]Also runs standard 3.5" Floppy Disks. Includes SuperDisk Tools and accelerator software.

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BY STEVE RIGNEY

PRODUCT	....WatchGuard LiveSecurity System
COMPANY	.....WatchGuard Technologies Seattle, WA; 888-682-1855, 206-521-8340 www.watchguard.com
SUPPORT	.....Live phone support, 6 a.m. to 5 p.m. weekdays (PT); free for first year, paid plans available thereafter; one-year warranty on Firebox II
SUITABILITY	.....Good for small to medium-size businesses that need protection for both incoming and outgoing data
AVERAGE PRICE	.....$3,606

By now we all know how crucial firewalls are to Internet security. Unfortunately, administrators of small networks usually set up a firewall and let it ride—if they even install one at all.

Administrators of small networks are often spread too thin and have more important jobs to contend with. Also, they may not realize that hackers are constantly learning how to break into firewall systems and that vendors are constantly publishing patches to plug new holes.

The folks at WatchGuard Technologies are acutely aware of these issues, and that's why they introduced the LiveSecurity System. This package includes the flexible Firebox II firewall, LiveSecurity update software, and a complete virtual-private-network (VPN) solution. However, small businesses may consider the $3,606 package a bit pricey and decide to rely on a less expensive blocking solution, such as the firewall capabilities bundled in most low-end routers.

The main component of the LiveSecurity System is the Firebox II turnkey firewall, which sits between your Internet connection (router) and the local network. Even though it is designed for small to medium-size networks, Firebox II can handle up to a T1 connection to the Internet and an unlimited number of clients.

The back of the unit has three 10/100Mbps autosensing Ethernet ports. The first port is external and connects to the router; the second port is internal and connects to the LAN. The third port is optional and allows you to place a device, such as a Web server, between the router and the protected LAN. With its bright red color and front-panel display, it's a flashy product. The front panel includes the WatchGuard Triangle Display, which is made of LEDs that show the administrator which way traffic is currently traveling, either to or from the Internet or on the local protected network.



The Firebox front panel shows the administrator which way traffic is flowing, along with any important errors.

The Firebox II works as an application layer, or proxy firewall. This means that it denies or allows access based on the type of application, such as Web or FTP traffic. Unfortunately, most proxy firewalls work only with applications built into the firewall. For example, if a new technology such as streaming video becomes available, users will have to wait for the firewall vendor to add support for it.

To solve this problem, the Firebox II includes a feature known as a "transparent" proxy, which allows it to pass any application, whether or not the firewall recognizes it. This is similar to packet-layer firewalls, which open each data packet and check the source and destination of the IP address before letting it pass.

Overall, we found the product fairly easy to install. The only requirement is that the administrator must understand IP addressing and know the different TCP/IP applications—HTTP, SMTP, and FTP—and their associated port numbers. Fortunately, the manual does a good job of explaining this information. By default, the Firebox II denies all incoming traffic. An installation wizard is used to walk the administrator through configuring the network to enable or disable certain applications, such as Web or e-mail traffic.

The newest selling point to and most unique feature of the LiveSecurity System is the LiveSecurity Broadcast software. Designed to keep all of your firewalls up-to-date with the latest patches and vulnerability fixes, LiveSecurity Broadcast works by constantly checking the WatchGuard Web site for new information and software. This information is created by the Rapid Response Team and includes a threat response, software updates, information alerts, and other information. This information is also sent encrypted to your firewalls and management stations and relies on digital certificates to ensure the authenticity of the sender and information.

The LiveSecurity Broadcast service is free for one year to those who purchase the LiveSecurity System; after that the service costs $995 per year. Companies that already have the LiveSecurity System can obtain the service for free until their maintenance program expires; thereafter, the service will also cost them $995 a year.

In addition to automatically deploying the latest security information and patches, the LiveSecurity System also offers a nice monitoring and notification tool. If a user attempts to bypass the firewall, an alert is generated and automatically sent to the administrator via an e-mail message. Administrators can also view activity reports to see what users are accessing and when.

Particularly handy is the bandwidth meter, which offers a real-time view of the amount of traffic traveling through the Firebox device. All of the management and monitoring features run on a centralized Windows-based PC that can watch multiple remote Firebox IIs.

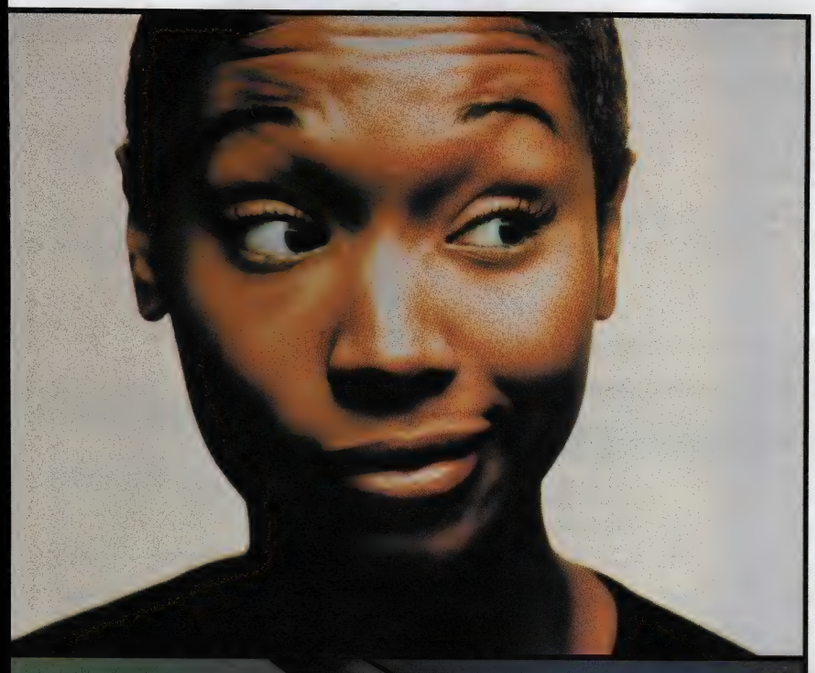
Other features of the LiveSecurity System include the WebBlocker content-filtering system. This software runs on the firewall and allows the administrator to define which sites a user can access. For example, we used WebBlocker to deny access to several pornographic and hate sites. WebBlocker also works with Microsystems' canned list of objectionable sites, which are updated on a frequent basis.

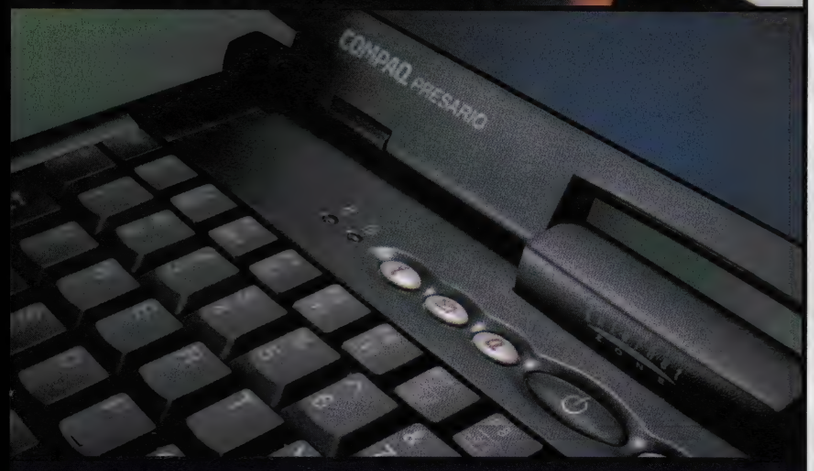
The VPN capabilities of the LiveSecurity System include a dial-up client for Windows 9x and NT users. Remote users can use the VPN software to establish an encrypted connection to the host LAN via an open Internet connection. Data is encrypted using 40 bits, and all users must be authenticated through the firewall before they can access internal servers and other resources.

The LiveSecurity System is a good solution for small to medium-size businesses that need solid protection for both incoming and outgoing data. Though it is somewhat confusing to set up, the Firebox is not quite as difficult as some top-of-the-line firewalls, such as CheckPoint, but it does require a fairly strong knowledge of TCP/IP and its services. Administrators who do understand TCP/IP, but are extremely busy with other tasks, will especially appreciate the LiveSecurity updates. ▼

SECTION CONTINUES ON PAGE 244

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PRODUCT	Dave 2.1
COMPANY	Thursby Software Systems Arlington, TX; 817-478-5070 www.thursby.com
SUPPORT	Live phone support, 8 a.m. to 5 p.m. weekdays (CT), free for 90 days
SUITABILITY	A great solution for PC-centric networks with a pocket of Macs that need seamless access to Windows network services
AVERAGE PRICE	$121 (single license)

Though Macintoshes don't make up the majority of systems on most corporate networks, it is important in some environments for them to be able to share devices and data with Windows machines on the LAN. However, network operating systems such as Windows NT Server provide only modest support to networked Mac clients.

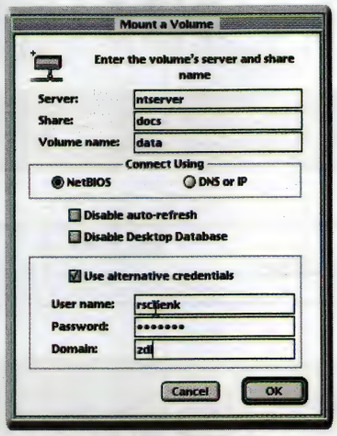
Best Buy August 1999 — **Dave 2.1** allows Macintoshes to completely integrate into Windows networks—providing file, print, and messaging services. It's an inexpensive yet complete solution that's also a snap to install.

Fortunately, Thursby Software Systems' $121-average Dave 2.1 lets Macs integrate fully into Windows networks. On the Macintosh side, instead of using AppleTalk with Windows NT and NetWare, Dave uses NetBIOS over TCP/IP. By encapsulating NetBIOS within TCP/IP, Macintoshes are able to see the LAN as if they were Windows PCs. TCP/IP also offers the advantages of improved performance and enhanced file compatibility. Dave supports Windows NT domain security and NT services, including DHCP, DNS, and WINS.

Dave consists of four main applets. These include Dave Access, for logging on to network resources; Dave Client, for mounting network resources; Dave Sharing, for sharing Mac files and PostScript printers; and Dave Print Client, for printing to PostScript printers connected to a Microsoft network.

Installation is relatively painless; our test Macintosh was configured for our Windows NT domain within minutes. Once on the network, users can map network shares resident on the server, as well as automate the process of logging on to multiple network resources with AppleScript. After file and print sharing are enabled on the Macintosh, Windows users can also peruse the Mac's files and print to the Mac's PostScript printer. Copying files across the network was refreshingly quick.

When you have finished authenticating Dave on the network, the program displays some network information, such as user name and domain membership. Though this data is useful, network administrators may want to limit how much of it is displayed, for security reasons. For example, administrators may not want users to be able to see the entire user list or see what a particular user's password expiration is set for. Unfortunately, administrators will have to use ResEdit to remove the dialog boxes.



Password authentication gives quick access to network resources.

With Dave, you can send broadcast messages to other users, computers, or workgroups on your network. Windows NT Remote Access Service (RAS) is supported so Mac users can dial in to the LAN to access network resources. Users can also tunnel in to the LAN using Point to Point Tunneling Protocol (PPTP).

Dave is a great solution for Mac users needing full integration into Microsoft networks. Mac-centric sites with a spattering of PCs should take a look at Miramar's PC MacLAN. **—Rob Schenk**

OBSERVER 6.1

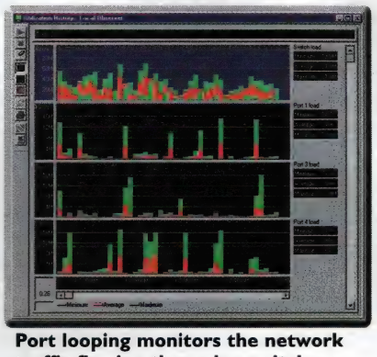
Switched-Network Aid

PRODUCT	Observer 6.1
COMPANY	Network Instruments Minneapolis, MN; 800-526-7919, 612-932-9899 www.networkinstruments.com
SUPPORT	Live phone support, 9 a.m. to 5 p.m. weekdays (CT)
SUITABILITY	A good solution for network administrators needing to diagnose network problems, baseline networks, and plan for future growth
AVERAGE PRICE	$970 (single license)

When you're administering a network, LAN analyzers are useful tools for diagnosing malfunctioning devices, monitoring performance, planning for growth, and generating infrastructure documentation. However, LAN analyzers haven't always been able to monitor switched networks. But with a unique port-looping function, Network Instruments' $970-average Observer 6.1 breaks the switched-network barrier and yields a wealth of diagnostic information.

Traditional LAN analyzers were originally designed to monitor shared networks and capture data as it traveled through the LAN. In a switched network, however, shared networks are broken down into segments, helping to reduce network traffic by eliminating unnecessary data broadcasting. But this creates problems for LAN analyzers, as some traffic flow may not be picked up for analysis. Thus, you may not get a true picture of traffic patterns through a switch, making it more difficult to pinpoint problems.

Observer addresses this issue with its port-looping capabilities. The program statistically samples traffic on each port of your switch and aggregates the data to produce an overall data-flow analysis. There are several requirements, however. Your switch must support port-mirroring and a Telnet-management interface. If your company has lower-end switches without these capabilities, you'll lose out on some of Observer's functionality.



Port looping monitors the network traffic flowing through a switch.

To monitor a switch, you must create a script file that lets Observer communicate with the switch. Network Instruments includes several sample scripts for switches from Cisco and Hewlett-Packard. We had to edit a provided script to work with our 3Com Superstack II 3300 switch. A script editor is included to provide some assistance. But in future, the product would benefit from a larger set of scripts from other vendors, which would reduce configuration time.

Once the script is properly configured, Observer generates real-time statistics, such as bandwidth utilization, top talkers, protocol distribution, and errors by station for a network segment. Observer includes additional tools for packet capture and decoding for those troubleshooters needing to investigate problems at the packet level.

Network Instruments offers several add-ons that extend Observer's functionality. Optional Probes ($295 each) can monitor multiple LAN or WAN segments. RMON, SNMP, and WEB extensions are also available.

Observer is a great tool for the administrator interested in preventative network maintenance. Add to the mix a good array of diagnostic and trending information, as well as switch support, and Observer is a natural addition to the administrator's toolbox. **—R.S.**

SECTION CONTINUES ON PAGE 246

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- **4X DVD-ROM**

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- **466**MHz
- 128MB SDRAM
- 6.4GB Hard Drive
- **4X DVD-ROM**

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intel inside celeron™ PROCESSOR

NX-555C - 15.1" XGA TFT Active Matrix

Same Features as above Plus:

- ***Intel® Celeron™ Processor***
- ***128KB Full CPU Speed on-die L2 Cache***
- ***15.1" XGA TFT Active Matrix Display***
- ***ATI Rage Pro 2X AGP 3D Graphics***
- ***8MB SGRAM Graphics Memory***
- ***75W SMART Lithium-Ion Battery***
- *Optional LS-120 Super Drive*
- *102-key Keyboard w/ Numeric Pad*

- **400**MHz
- 64MB SDRAM
- 4.1GB Hard Drive
- 24X CD-ROM

$1949

- **400**MHz
- 64MB SDRAM
- 4.1GB Hard Drive
- **4X DVD-ROM**

$2149

- **433**MHz
- 64MB SDRAM
- 6.4GB Hard Drive
- **4X DVD-ROM**

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- **466**MHz
- 128MB SDRAM
- 10GB Hard Drive
- **4X DVD-ROM**

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NX-554 & NX-555i - 14.1" & 15.1" XGA TFT Active Matrix

Same Features as above Plus:

- ***Intel® Pentium® II Processor***
- ***256KB Full CPU Speed on-die L2 Cache***
- *14.1" or 15.1" XGA TFT Active Matrix Display*
- ***ATI Rage Pro 2X AGP 3D Graphics***
- ***8MB SGRAM Graphics Memory***
- *Optional LS-120 Super Drive*
- *102-key Keyboard w/ Numeric Pad (15.1")*

- **14.1" XGA TFT**
- **366**MHz
- 64MB SDRAM
- 4.1GB Hard Drive
- 24X CD-ROM

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- **14.1" XGA TFT**
- **400**MHz
- 64MB SDRAM
- 6.4GB Hard Drive
- **4X DVD-ROM**

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- **366**MHz
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- 6.4GB Hard Drive
- **4X DVD-ROM**

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- 10GB Hard Drive
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- 3.2GB Hard Drive
- 56K V.90 Fax/Modem

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Site Building

Tag your site for high visibility.

BY DAVID S. LINTHICUM

Search engines are like people: Ask 10 of them the same question, and you'll get 10 different answers. This is because each search engine locates and catalogs existing Web content using its own techniques and extracts various types of information according to its own criteria. Thus, they all produce very distinct results. What's more, although some search engines passively wait for sites to make themselves known through site registration, it's more common for search engines to actively scan the Web and index site content automatically.

So what can a site builder do to ensure that his or her site catches the eye of the right search engines at the right time? The answer lies in understanding how the engines work, which will help you understand how to maximize your site's exposure.

Search engines are really front-ends to large databases. Using indexing agents such as robots or spiders, search engines update their databases frequently with new URLs and index information. Bots and spiders scan the Web, seeking out new or updated pages, moving from URL to URL. Chances are, many agents have already scanned your site.

When hitting a particular site, an agent will read the full text of every page in the site's hierarchy, from the home pages on down, and hit all external links as well. This way, the agents are able to locate, read, and catalog sites, whether they are registered or not. You can, of course, register your URL with a search engine; however, that just puts your site in the "to-be-scanned" queue.

The agents will return to your site every so often to rescan it and refresh the information in the database. This is an automatic process, and typically, you don't have to let the search engine know of dead links, as was the case in days past.

GETTING NOTICED

Many site builders don't have the faintest idea how to get their sites listed with the major search engines. Certain tags can help with this process, letting agents index your site using the most descriptive and pertinent information. These tags include <TITLE>, ALT, and the most important, <META>.

When using the <TITLE> tag inside your documents, you need to make it descriptive, since the agents typically go to the <TITLE> tag first. The <TITLE> tag is what the browser displays in the title bar as well as in the first line of HTML in a typical Web page. The agents will generally read the information between the <TITLE> tags and enter that in their databases as a description of your site, although each does so in its own unique way.

For example, before taking into account the importance of the <TITLE> tag, a site's title may look like this: *<TITLE>Plastech Corp.</TITLE>*. This is not descriptive, and will only bring people to your site who are already looking for Plastech. But how about: *<TITLE>Plastech Corp. – The Plastic Supplier To The World</TITLE>*? That's more descriptive and certainly sets up the site for more traffic from those looking for information on plastic.

Along the same lines as the <TITLE> tags, you may want to consider using ALT tags to define an image with text. This way, your page has a better chance of being indexed correctly by an agent, even though there is no text displayed with the image. For example, look at: *<img src="/pictures/plastech.jpg" alt="Plastech Corp.">*.

THE POWER OF THE <META> TAG

Despite the impact of the <TITLE> and ALT tags on search engines, the <META> tag is by far the most crucial these days. The <META> tags let you give search engines much more detailed information about Web pages and thus even more control as to how your site is indexed by the search engines.

Not all search engines use the <META> tag yet. However, you can count on its increased use as site builders become more aware that it pays to advertise. It's so easy to use the <META> tags with a site that there is really no reason you should not put in yours today.



The <META> tag codes exist between the <HEAD> tags. Here is an example: *<META name="description" content="a major supplier of plastics">*.

The above syntax will control what the search engines display as the summary of your Web page, usually after the title of the Web page. Be careful. Understand that the content is a formal description of your Web page and that millions may see it, many more than will look at your site itself.

To ensure that even more people hit your site, you may want to enlist other features of the <META> tag, for instance: *<META name="keywords" content="plastics, plastic, plastic boxes, plastic bags, corporation, Virginia">*.

This line, although not visible to the search-engine user, lets you add more relevant keywords for the agents to index, providing a better chance for your site to be found. If someone enters "plastic bags" in a search engine that has indexed the above line of code, the search engine will point that user to this page since "plastic bags" is now listed in its content. This is independent of whether or not it's actually displayed on the page.

One way to best use keywords is to ensure that you include both singular and plural versions of the same keyword, such as "plastic" and "plastics." You may want to include the active and passive voices of the same verbs as well, if applicable. However, it's not a good idea to repeat words in an attempt to maximize the chances of search-engine users finding your site. InfoSeek and Lycos have automatic policies to penalize sites that practice this or will dump them altogether.

Another <META> tag that you may use is the robots tag. An example is: *<META NAME="ROBOTS" CONTENT="NOINDEX">*. This lets you display a Web page you don't want indexed by an agent. Of course, it's up to the search engine whether it ignores it or not.

With the tags described in this column, it's possible for your site traffic to increase significantly—now that people can finally find you. ▼

ILLUSTRATION BY TIM ALT

WWW.TCCOMPUTERS.COM

Treasure Chest News

AUGUST 1999 VOL. 1, ISSUE 2

Letter from the C.O.O.



Darin Oreman

Prices slashed with no change in service and support

"Since I started TC in 1986 my goal was to create a company that offered competitive prices along with great services by adding value to the products that we sell. Over the past 12 years we have built a strong name for TC by doing just this. Motherboards for example, when purchased with a processor get special treatment from our staff of quality control personnel. Each motherboard with processor gets jumpers set, quality control testing and an added warranty before it leaves our facility. We give a 3 year warranty on all motherboards and processor combos no matter what the original manufacture warranty is. We also ship that board with a free installation video, anti static wrist strap and include the high quality CPU fan with the package. This is just one of the ways that TC has become the premier upgrade source. With the invent of the Internet we have found that there is more and more companies trying to get your business. Many of these online companies may offer rock bottom prices but they don't offer any services like TC. In order to better serve our customers we have made drastic price decreases on all of our products, yet we have kept with our commitment to offer great services and support unlike many of these online competitors. Check our our website at www.tccomputers.com for the most recent price drops and let us know if you find any product for less money anywhere and we will do our best to meet or beat that competitive price. You can always email me at darin@tchq.com if you have any questions, comments or just want to say hello."

Alligators, Motherboards and 80,000 Computer Products Save You Money

By Seahawk
TC News

Sure! It is a shock to most people that the best place to buy motherboards is the same place alligators are considered house pets, Southern Louisiana. It's true! TC Computers, located just off the banks of the Mississippi River in New Orleans, is known nationally as delivering its customers the best value on the latest technology around. TC's management applies the same rugged philosophy of its alligator-wrestling neighbors to save you money.

TC brings you over 80,000 products through its website www.tccomputers.com with more product images and specs, services and technology. Over the past 3 months, the staff at TC has been implementing key back end technologies in order to make your website surfing experience much more enjoyable. One web site customer wrote of the new features "I have almost quit visiting other similar sites – they don't measure up to TC. I can find everything I need here at the best prices, and it is very easy to get around on your site. I recommend TC to my friends."

With special weekly deals, often at TC's cost, the web site is buzzing with savings opportunities for you. New features are everywhere: Real time pricing & stock status on 80,000 products, customer product reviews, detailed specs and benchtesting reports, salespeople available to answer questions online, instant order processing, and most orders shipped the same day. Of course, these are just some of the reasons how TC has swam it's way to the top of the computer upgrade market. To see the rest in action, bookmark our site at www.tccomputers.com.



Best Buy Award Motherboards

By Seahawk
TC News

Since 1994 TC Computers has won every *Computer Shopper* Award for "Best Place to Buy Motherboards". TC has become the premier company in direct motherboard sales. TC adds value to every motherboard we ship. Values like free processor fan, installation video, bench testing, preset jumpers, and 3-year warranties on motherboards and processors all make T.C. stand out from the competition.



TC's Celebrating Over 12 Years of Satisfied Customers

TC Computers is the premier company in direct motherboard and processor sales

- Since 1994, the only company to ever win the Computer Shopper Best Buy Award for motherboards.
- When you purchase a motherboard from TC, you are backed by the best warranty in the industry as well as award-winning technical support.

Your computer systems and networks are more than a major investment. They're the lifeblood of your business. So it stands to reason that one wrong move in the procurement process could cost you plenty in terms of lost productivity and revenue. That's why you need TC Computers. In today's global economy, getting the best return on every dollar is more important than ever. As a TC customer, you can take advantage of the industry's lowest prices, plus volume purchase plans that let you save even more.

Strategic alliances unparalleled selection

TC has forged strategic partnerships with major manufacturers. This gives you instant access to a $2 billion inventory featuring more than 80,000 products from more than 1,000 manufacturers.

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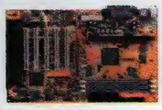
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w/ Intel Pentium® II 400MHz Chip	$319
w/ Intel Pentium® III 450MHz Chip	$399
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w/ Intel Pentium® III 550MHz Chip	$959



$119 ABIT

ABIT BX6r2

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- 4x DIMM Sockets
- 512MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor.
- Ultra DMA/33 support.

WITHOUT CPU	$119
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w/ Intel Celeron 366MHz Chip w/128K	$219
w/ Intel Celeron 400MHz Chip w/128K	$259
w/ Intel Celeron 433MHz Chip w/128K	$279
w/ Intel Pentium® II 350MHz Chip	$319
w/ Intel Pentium® II 400MHz Chip	$339
w/ Intel Pentium® III 450MHz Chip	$419
w/ Intel Pentium® III 500MHz Chip	$649
w/ Intel Pentium® III 550MHz Chip	$979

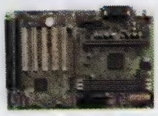


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AOPEN AX6B

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
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w/ Intel Pentium® II 350MHz Chip	$309
w/ Intel Pentium® II 400MHz Chip	$329
w/ Intel Pentium® III 450MHz Chip	$409
w/ Intel Pentium® III 500MHz Chip	$639
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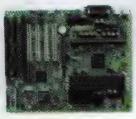


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AOPEN AX6BC

- Intel 440BX Chipset
- CPU: Pentium® II 233-450 MHz processor support
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 1 Floppy, 2 USB Ports
- ATX form factor. 224mm x 305mm
- Ultra DMA/33 Bus Master IDE support.

WITHOUT CPU	$99
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w/ Intel Celeron 366MHz Chip w/128K	$199
w/ Intel Celeron 400MHz Chip w/128K	$239
w/ Intel Celeron 433MHz Chip w/128K	$259
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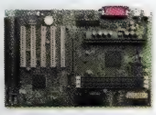


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- Intel 440BX Chipset
- CPU: Pentium® II 233-450 MHz processor
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 1 Floppy, 2 USB Ports
- ATX form factor. 244mm x 305mm
- Adaptec AHA-7880P Ultra Wide SCSI Controller.

WITHOUT CPU	$235
w/ Intel Celeron 333MHz Chip w/128K	$315
w/ Intel Celeron 366MHz Chip w/128K	$335
w/ Intel Celeron 400MHz Chip w/128K	$375
w/ Intel Celeron 433MHz Chip w/128K	$395
w/ Intel Pentium® II 350MHz Chip	$435
w/ Intel Pentium® II 400MHz Chip	$455
w/ Intel Pentium® III 450MHz Chip	$535
w/ Intel Pentium® III 500MHz Chip	$765
w/ Intel Pentium® III 550MHz Chip	$1095

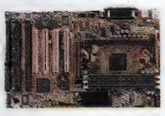


$255 AOpen

AOPEN AX6BC PRO

- Intel 440BX Chipset
- CPU: Intel Pentium® II, Pentium® III, Celeron®
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, 1 Floppy, IrDA
- 202mm x 305mm, ATX Form Factor.
- Award Plug & Play 2MB Flash ROM BIOS w/ ACPI support for PC98.

WITHOUT CPU	$255
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w/ Intel Celeron 366MHz Chip w/128K	$355
w/ Intel Celeron 400MHz Chip w/128K	$395
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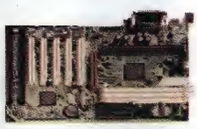
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ASUS P2B

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- CPU: Pentium® II 233-400 MHz processor support
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse& Keyboard, IrDA
- ATX Form Factor. 7.5" x 12"
- Dual Ultra DMA/33 IDE Ports support.

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w/ Intel Celeron 366MHz Chip w/128K	$235
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w/ Intel Pentium® II 350MHz Chip	$335
w/ Intel Pentium® II 400MHz Chip	$355
w/ Intel Pentium® III 450MHz Chip	$435
w/ Intel Pentium® III 500MHz Chip	$665
w/ Intel Pentium® III 550MHz Chip	$995

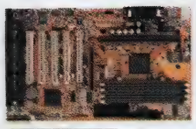


$119 DIAMOND

DIAMOND MICRONICS C400

- Intel 440BX Chipset
- CPU: Pentium® II 233-450 MHz, Celeron® 233-333 MHz
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot, 1 shared PCI/ISA Slot
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor.
- Slot 1 100MHz Ultra DMA/33 support.

WITHOUT CPU	$119
w/ Intel Celeron 333MHz Chip w/128K	$199
w/ Intel Celeron 366MHz Chip w/128K	$219
w/ Intel Celeron 400MHz Chip w/128K	$259
w/ Intel Celeron 433MHz Chip w/128K	$279
w/ Intel Pentium® II 350MHz Chip	$319
w/ Intel Pentium® II 400MHz Chip	$339
w/ Intel Pentium® III 450MHz Chip	$419
w/ Intel Pentium® III 500MHz Chip	$649
w/ Intel Pentium® III 550MHz Chip	$979

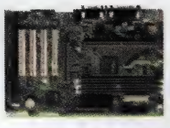


$85 FIC

FIC VB-601

- Intel 440BX Chipset
- CPU: Pentium® II 266-450 MHz processor support
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse& Keyboard, IrDA
- ATX form factor. 12" x 7.98"
- Ultra DMA/33 support, PCI 2.1 compliant.

WITHOUT CPU	$85
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w/ Intel Celeron 366MHz Chip w/128K	$185
w/ Intel Celeron 400MHz Chip w/128K	$225
w/ Intel Celeron 433MHz Chip w/128K	$245
w/ Intel Pentium® II 350MHz Chip	$285
w/ Intel Pentium® II 400MHz Chip	$305
w/ Intel Pentium® III 450MHz Chip	$385
w/ Intel Pentium® III 500MHz Chip	$615
w/ Intel Pentium® III 550MHz Chip	$945

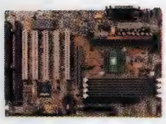


$129 intel

INTEL SE440BX

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- 1 ISA Slots, 3 PCI Slots, 1 AGP Slot, 1 shared PCI/ISA slot
- 3x DIMM Sockets
- 384MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse/Keyboard, IrDA
- ATX Form Factor 7.75"x 12"
- Accelerated Graphics Port/ Ultra DMA/33 supported.

WITHOUT CPU	$129
w/ Intel Celeron 333MHz Chip w/128K	$209
w/ Intel Celeron 366MHz Chip w/128K	$229
w/ Intel Celeron 400MHz Chip w/128K	$269
w/ Intel Celeron 433MHz Chip w/128K	$289
w/ Intel Pentium® II 350MHz Chip	$329
w/ Intel Pentium® II 400MHz Chip	$349
w/ Intel Pentium® III 450MHz Chip	$429
w/ Intel Pentium® III 500MHz Chip	$659
w/ Intel Pentium® III 550MHz Chip	$989



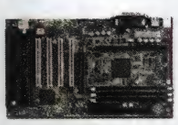
$105 SOYO

Also available
SOYO SY-6BA+ for $105

SOYO SY-6BA+

- Intel 440BX Chipset
- CPU: Pentium® II 233-450Mhz, Celeron® 233-333MHz
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot, 1 shared PCI/ISA
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse/ Keyboard, IrDA
- 4-layer PCB, 12" x 7.5". ATX Form Factor.
- Two Ultra DMA/33 IDE ports, on-board Ultra I/O Chip.

WITHOUT CPU	$105
w/ Intel Celeron 333MHz Chip w/128K	$185
w/ Intel Celeron 366MHz Chip w/128K	$205
w/ Intel Celeron 400MHz Chip w/128K	$245
w/ Intel Celeron 433MHz Chip w/128K	$265
w/ Intel Pentium® II 350MHz Chip	$305
w/ Intel Pentium® II 400MHz Chip	$325
w/ Intel Pentium® III 450MHz Chip	$405
w/ Intel Pentium® III 500MHz Chip	$635
w/ Intel Pentium® III 550MHz Chip	$965

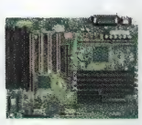


$105 SUPERO

SUPERMICRO P6SBA

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 384MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 7"
- Ultra DMA/33 support.

WITHOUT CPU	$105
w/ Intel Celeron 333MHz Chip w/128K	$185
w/ Intel Celeron 366MHz Chip w/128K	$205
w/ Intel Celeron 400MHz Chip w/128K	$245
w/ Intel Celeron 433MHz Chip w/128K	$265
w/ Intel Pentium® II 350MHz Chip	$305
w/ Intel Pentium® II 400MHz Chip	$325
w/ Intel Pentium® III 450MHz Chip	$405
w/ Intel Pentium® III 500MHz Chip	$635
w/ Intel Pentium® III 550MHz Chip	$965

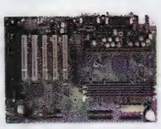


$289 SUPERO

SUPERMICRO P6SBS

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 512MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 8.872"
- Adaptec 7895 Dual Channel UW SCSI 80MB/s.

WITHOUT CPU	$289
w/ Intel Celeron 333MHz Chip w/128K	$369
w/ Intel Celeron 366MHz Chip w/128K	$389
w/ Intel Celeron 400MHz Chip w/128K	$429
w/ Intel Celeron 433MHz Chip w/128K	$449
w/ Intel Pentium® II 350MHz Chip	$489
w/ Intel Pentium® II 400MHz Chip	$509
w/ Intel Pentium® III 450MHz Chip	$589
w/ Intel Pentium® III 500MHz Chip	$819
w/ Intel Pentium® III 550MHz Chip	$1149



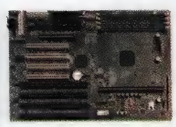
$105 TYAN

Also available
TYAN S1832DL for $185

TYAN S1846S

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- Single ATX Design. 8.3 x 12.0"
- Dual Ultra DMA/33 IDE Ports support.

WITHOUT CPU	$105
w/ Intel Celeron 333MHz Chip w/128K	$185
w/ Intel Celeron 366MHz Chip w/128K	$205
w/ Intel Celeron 400MHz Chip w/128K	$245
w/ Intel Celeron 433MHz Chip w/128K	$265
w/ Intel Pentium® II 350MHz Chip	$305
w/ Intel Pentium® II 400MHz Chip	$325
w/ Intel Pentium® III 450MHz Chip	$405
w/ Intel Pentium® III 500MHz Chip	$635
w/ Intel Pentium® III 550MHz Chip	$965



$119 TYAN

TYAN S1830S

- Intel 440BX Chipset
- CPU: Pentium® II 233-450MHz or Celeron processor
- 4 ISA , 4 PCI Slots, 1 AGP Slot, 1 Shared PCI/ISA Slot
- 4x DIMM Sockets
- 1024MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, IrDA
- Baby AT Design. 13" x 8.6"
- Ultra DMA/33 PCI EIDE & Super I/O.

WITHOUT CPU	$119
w/ Intel Celeron 333MHz Chip w/128K	$199
w/ Intel Celeron 366MHz Chip w/128K	$219
w/ Intel Celeron 400MHz Chip w/128K	$259
w/ Intel Celeron 433MHz Chip w/128K	$279
w/ Intel Pentium® II 350MHz Chip	$319
w/ Intel Pentium® II 400MHz Chip	$339
w/ Intel Pentium® III 450MHz Chip	$419
w/ Intel Pentium® III 500MHz Chip	$649
w/ Intel Pentium® III 550MHz Chip	$979

Pentium® II/III/Celeron® Dual BX Chipset Motherboards



Dual $285 ASUS

Also available
ASUS P2B-DS for $469

ASUS P2B-D

- Intel 100MHz 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- Single or Dual Pentium® II 233, 266, 300, 333,400
- 2 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 1024MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard
- ATX Form Factor. 9.56" x 12"
- Dual Ultra DMA/33 IDE Ports support.

WITHOUT CPU	$285
WITH SINGLE PENTIUM®II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$365
w/ Intel Celeron® 366MHz Chip w/128K	$385
w/ Intel Celeron® 400MHz Chip w/128K	$425
w/ Intel Celeron® 433MHz Chip w/128K	$445
w/ Intel Pentium® II 350MHz Chip	$485
w/ Intel Pentium® II 400MHz Chip	$505
w/ Intel Pentium® III 450MHz Chip	$585
w/ Intel Pentium® III 500MHz Chip	$815
w/ Intel Pentium® III 550MHz Chip	$1145
WITH DUAL PENTIUM®II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$685
w/ Dual Intel Pentium® II 400MHz Chip	$725
w/ Dual Intel Pentium® III 450MHz Chip	$885
w/ Dual Intel Pentium® III 500MHz Chip	$1345
w/ Dual Intel Pentium® III 550MHz Chip	$2005



Dual $849 ASUS

ASUS P2B-D2

- Intel 100MHz 440BX Chipset
- CPU: Pentium® II 233-450 MHz processor support
- Single or Dual Pentium® II 233, 266, 300, 333,400, 450
- 1 ISA Slots, 3 Primary PCI Slots, 3 Secondary PCI Slots
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- Full-sized AT Form Factor. 12" x 14"
- Adaptec® 7890 & 3860 SCSI controllers.

WITHOUT CPU	$849
WITH SINGLE PENTIUM®II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$929
w/ Intel Celeron® 366MHz Chip w/128K	$949
w/ Intel Celeron® 400MHz Chip w/128K	$989
w/ Intel Celeron® 433MHz Chip w/128K	$1009
w/ Intel Pentium® II 350MHz Chip	$1049
w/ Intel Pentium® II 400MHz Chip	$1069
w/ Intel Pentium® III 450MHz Chip	$1149
w/ Intel Pentium® III 500MHz Chip	$1379
w/ Intel Pentium® III 550MHz Chip	$1709
WITH DUAL PENTIUM®II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$1249
w/ Dual Intel Pentium® II 400MHz Chip	$1289
w/ Dual Intel Pentium® III 450MHz Chip	$1449
w/ Dual Intel Pentium® III 500MHz Chip	$1909
w/ Dual Intel Pentium® III 550MHz Chip	$2569



Dual $429 SUPERO

SUPERMICRO P6DBU

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- Single or Dual Pentium® II 233, 266, 300, 333,400
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse &Keyboard, IrDA
- ATX Form Factor 12" x 9.65"
- Adaptec 7890 Ultra2SCSI 80MB/s.

WITHOUT CPU	$429
WITH SINGLE PENTIUM®II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$509
w/ Intel Celeron® 366MHz Chip w/128K	$529
w/ Intel Celeron® 400MHz Chip w/128K	$569
w/ Intel Celeron® 433MHz Chip w/128K	$589
w/ Intel Pentium® II 350MHz Chip	$629
w/ Intel Pentium® II 400MHz Chip	$649
w/ Intel Pentium® III 450MHz Chip	$729
w/ Intel Pentium® III 500MHz Chip	$959
w/ Intel Pentium® III 550MHz Chip	$1289
WITH DUAL PENTIUM®II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$829
w/ Dual Intel Pentium® II 400MHz Chip	$869
w/ Dual Intel Pentium® III 450MHz Chip	$1029
w/ Dual Intel Pentium® III 500MHz Chip	$1489
w/ Dual Intel Pentium® III 550MHz Chip	$2149

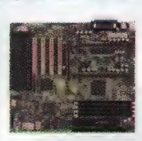


Dual $379 SUPERO

SUPERMICRO P6DBS

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- Single or Dual Pentium® II 233, 266, 300, 333,400
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 10.2"
- Adaptec 7895 Dual Channel UW SCSI 80MB/s.

WITHOUT CPU	$379
WITH SINGLE PENTIUM®II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$459
w/ Intel Celeron® 366MHz Chip w/128K	$479
w/ Intel Celeron® 400MHz Chip w/128K	$519
w/ Intel Celeron® 433MHz Chip w/128K	$539
w/ Intel Pentium® II 350MHz Chip	$579
w/ Intel Pentium® II 400MHz Chip	$599
w/ Intel Pentium® III 450MHz Chip	$679
w/ Intel Pentium® III 500MHz Chip	$909
w/ Intel Pentium® III 550MHz Chip	$1239
WITH DUAL PENTIUM®II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$779
w/ Dual Intel Pentium® II 400MHz Chip	$819
w/ Dual Intel Pentium® III 450MHz Chip	$979
w/ Dual Intel Pentium® III 500MHz Chip	$1439
w/ Dual Intel Pentium® III 550MHz Chip	$2099



Dual $185 SUPERO

SUPERMICRO P6DBE

- Intel 440BX Chipset
- CPU: Pentium® II 233-400 MHz processor support
- Single or Dual Pentium® II 233, 266, 300, 333,400
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets
- 1GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 10.2"
- Ultra DMA/33 support.

WITHOUT CPU	$185
WITH SINGLE PENTIUM®II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$265
w/ Intel Celeron® 366MHz Chip w/128K	$285
w/ Intel Celeron® 400MHz Chip w/128K	$325
w/ Intel Celeron® 433MHz Chip w/128K	$345
w/ Intel Pentium® II 350MHz Chip	$385
w/ Intel Pentium® II 400MHz Chip	$405
w/ Intel Pentium® III 450MHz Chip	$485
w/ Intel Pentium® III 500MHz Chip	$715
w/ Intel Pentium® III 550MHz Chip	$1045
WITH DUAL PENTIUM®II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$585
w/ Dual Intel Pentium® II 400MHz Chip	$625
w/ Dual Intel Pentium® III 450MHz Chip	$785
w/ Dual Intel Pentium® III 500MHz Chip	$1245
w/ Dual Intel Pentium® III 550MHz Chip	$1905

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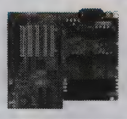
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GX Chipset for Pentium® II/III & Celeron® Motherboards



Dual $465 SUPER®

SUPERMICRO P6DGU
- Intel 440GX Chipset
- CPU: Pentium® II 233-450 MHz processor support
- Single or Dual Pentium® II 300, 333, 350, 400, 450MHz
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets • 2GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 9.65"

WITHOUT CPU	**$465**
WITH SINGLE PENTIUM® II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$545
w/ Intel Celeron® 366MHz Chip w/128K	$565
w/ Intel Celeron® 400MHz Chip w/128K	$605
w/ Intel Celeron® 433MHz Chip w/128K	$625
w/ Intel Pentium® II 350MHz Chip	$665
w/ Intel Pentium® II 400MHz Chip	$685
w/ Intel Pentium® III 450MHz Chip	$765
w/ Intel Pentium® III 500MHz Chip	$995
w/ Intel Pentium® III 550MHz Chip	$1325
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w/ Dual Intel Pentium® III 450MHz Chip	$1065
w/ Dual Intel Pentium® III 500MHz Chip	$1525
w/ Dual Intel Pentium® III 550MHz Chip	$2185



Dual $419 SUPER®

SUPERMICRO P6DGS
- Intel 440GX Chipset
- CPU: Pentium® II 233-450 MHz processor support
- Single or Dual Pentium® II 300, 333, 350, 400, 450MHz
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets • 2GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 9.65"

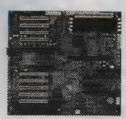
WITHOUT CPU	**$419**
WITH SINGLE PENTIUM® II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$499
w/ Intel Celeron® 366MHz Chip w/128K	$519
w/ Intel Celeron® 400MHz Chip w/128K	$559
w/ Intel Celeron® 433MHz Chip w/128K	$579
w/ Intel Pentium® II 350MHz Chip	$619
w/ Intel Pentium® II 400MHz Chip	$639
w/ Intel Pentium® III 450MHz Chip	$719
w/ Intel Pentium® III 500MHz Chip	$949
w/ Intel Pentium® III 550MHz Chip	$1279
WITH DUAL PENTIUM® II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$819
w/ Dual Intel Pentium® II 400MHz Chip	$859
w/ Dual Intel Pentium® III 450MHz Chip	$1019
w/ Dual Intel Pentium® III 500MHz Chip	$1479
w/ Dual Intel Pentium® III 550MHz Chip	$2139



Dual $235 SUPER®

SUPERMICRO P6DGE
- Intel 440GX Chipset
- CPU: Pentium® II 233-450 MHz processor support
- Single or Dual Pentium® II 300, 333, 350, 400, 450MHz
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets • 2GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor 12" x 9.5"

WITHOUT CPU	**$235**
WITH SINGLE PENTIUM® II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$315
w/ Intel Celeron® 366MHz Chip w/128K	$335
w/ Intel Celeron® 400MHz Chip w/128K	$375
w/ Intel Celeron® 433MHz Chip w/128K	$395
w/ Intel Pentium® II 350MHz Chip	$435
w/ Intel Pentium® II 400MHz Chip	$455
w/ Intel Pentium® III 450MHz Chip	$535
w/ Intel Pentium® III 500MHz Chip	$765
w/ Intel Pentium® III 550MHz Chip	$1095
WITH DUAL PENTIUM® II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$635
w/ Dual Intel Pentium® II 400MHz Chip	$675
w/ Dual Intel Pentium® III 450MHz Chip	$835
w/ Dual Intel Pentium® III 500MHz Chip	$1295
w/ Dual Intel Pentium® III 550MHz Chip	$1955



Dual $825 SUPER®

SUPERMICRO P6DGH
- Intel 440GX Chipset
- CPU: Pentium® II 233-450 MHz processor support
- Single or Dual Pentium® II 300, 333, 350, 400, 450MHz
- 2 ISA Slots, 9 PCI Slots (5 Primary, 4 Secondary), 1 AGP Slot
- 4x DIMM Sockets • 2GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, 1 Infrared Port.
- Full AT Form Factor 12.2" x 13.2"

WITHOUT CPU	**$825**
WITH SINGLE PENTIUM® II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$905
w/ Intel Celeron® 366MHz Chip w/128K	$925
w/ Intel Celeron® 400MHz Chip w/128K	$965
w/ Intel Celeron® 433MHz Chip w/128K	$685
w/ Intel Pentium® II 350MHz Chip	$1025
w/ Intel Pentium® II 400MHz Chip	$1045
w/ Intel Pentium® III 450MHz Chip	$1125
w/ Intel Pentium® III 500MHz Chip	$1355
w/ Intel Pentium® III 550MHz Chip	$1685
WITH DUAL PENTIUM® II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$1225
w/ Dual Intel Pentium® II 400MHz Chip	$1265
w/ Dual Intel Pentium® III 450MHz Chip	$1425
w/ Dual Intel Pentium® III 500MHz Chip	$1885
w/ Dual Intel Pentium® III 550MHz Chip	$2545



Dual $539 TYAN

TYAN S1837UANG THUNDERBOLT
- Intel 440GX Chipset
- CPU: Pentium® II/III 233-450 MHz processor support
- Single or Dual Pentium® II/III 300, 333, 350, 400, 450MHz
- 1 ISA Slots, 6 PCI Slots, 1 AGP Slot, 1 Shared PCI/ISA slot
- 4x DIMM Sockets • 2GB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- Extended ATX Form Factor 13" x 12"

WITHOUT CPU	**$539**
WITH SINGLE PENTIUM® II/III INSTALLED:	
w/ Intel Celeron® 333MHz Chip w/128K	$619
w/ Intel Celeron® 366MHz Chip w/128K	$639
w/ Intel Celeron® 400MHz Chip w/128K	$679
w/ Intel Celeron® 433MHz Chip w/128K	$699
w/ Intel Pentium® II 350MHz Chip	$739
w/ Intel Pentium® II 400MHz Chip	$759
w/ Intel Pentium® III 450MHz Chip	$839
w/ Intel Pentium® III 500MHz Chip	$1069
w/ Intel Pentium® III 550MHz Chip	$1399
WITH DUAL PENTIUM® II/III INSTALLED:	
w/ Dual Intel Pentium® II 350MHz Chip	$939
w/ Dual Intel Pentium® II 400MHz Chip	$979
w/ Dual Intel Pentium® III 450MHz Chip	$1139
w/ Dual Intel Pentium® III 500MHz Chip	$1599
w/ Dual Intel Pentium® III 550MHz Chip	$2259

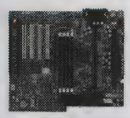
GX Chipset for Pentium® II Xeon™ Processor Motherboards



$819 ASUS

ASUS XG-DLS
- Intel 440GX Chipset
- CPU: Pentium® II Xeon™ 400-450 MHz processor support
- Single or Dual Pentium® II Xeon™ 400-450MHz
- 1 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets • Running at Bus Speed of 100MHz
- 2GB Maximum On Board Memory • 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, PS/2 Keyboard
- ATX Form Factor 10.5" x 12"
- Adaptec 7896 Dual Ultra2 SCSI channels.

WITHOUT CPU	**$819**
WITH SINGLE PENTIUM® II XEON™ INSTALLED:	
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w/ Intel Pentium® II Xeon™ 400MHz Chip w/1MB L2 Cache	$2969
w/ Intel Pentium® II Xeon™ 450MHz Chip w/512K L2 Cache	$1759
w/ Intel Pentium® II Xeon™ 450MHz Chip w/1MB L2 Cache	$2919
w/ Intel Pentium® II Xeon™ 500MHz Chip w/512K L2 Cache	$1849
w/ Intel Pentium® II Xeon™ 500MHz Chip w/1MB L2 Cache	$2969
w/ Intel Pentium® II Xeon™ 500MHz Chip w/2MB L2 Cache	$4849
w/ Intel Pentium® II Xeon™ 550MHz Chip w/512K L2 Cache	$1899



$469 SUPER®

SUPERMICRO S2DGR
- Intel 440GX Chipset
- CPU: Pentium® II Xeon™ 400-450 MHz processor support
- Single or Dual Pentium® II Xeon™ 400-450MHz
- 2 ISA Slots, 4 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets • Running at Bus Speed of 100MHz
- 2GB Maximum On Board Memory • 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, PS/2 Keyboard
- ATX Form Factor 12" x 10.125"
- Adaptec 7895 Dual Channel UW SCSI 80MB/s.

WITHOUT CPU	**$469**
WITH SINGLE PENTIUM® II XEON™ INSTALLED:	
w/ Intel Pentium® II Xeon™ 400MHz Chip w/512K L2 Cache	$1299
w/ Intel Pentium® II Xeon™ 400MHz Chip w/1MB L2 Cache	$2769
w/ Intel Pentium® II Xeon™ 450MHz Chip w/512K L2 Cache	$1419
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w/ Intel Pentium® II Xeon™ 550MHz Chip w/512K L2 Cache	$1549



$518 SUPER®

SUPERMICRO S2DGU
- Intel 440GX Chipset
- CPU: Pentium® II Xeon™ 400-450 MHz processor support
- Single or Dual Pentium® II Xeon™ 400-450MHz
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 4x DIMM Sockets • Running at Bus Speed of 100MHz
- 2GB Maximum On Board Memory • 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, PS/2 Keyboard
- ATX Form Factor 12" x 10.125"
- Adaptec 7890 Ultra II SCSI 80MB/s.

WITHOUT CPU	**$518**
WITH SINGLE PENTIUM® II XEON™ INSTALLED:	
w/ Intel Pentium® II Xeon™ 400MHz Chip w/512K L2 Cache	$1348
w/ Intel Pentium® II Xeon™ 400MHz Chip w/1MB L2 Cache	$2818
w/ Intel Pentium® II Xeon™ 450MHz Chip w/512K L2 Cache	$1468
w/ Intel Pentium® II Xeon™ 450MHz Chip w/1MB L2 Cache	$3418
w/ Intel Pentium® II Xeon™ 500MHz Chip w/512K L2 Cache	$4868
w/ Intel Pentium® II Xeon™ 500MHz Chip w/1MB L2 Cache	$2668
w/ Intel Pentium® II Xeon™ 500MHz Chip w/2MB L2 Cache	$4548
w/ Intel Pentium® II Xeon™ 550MHz Chip w/512K L2 Cache	$1598

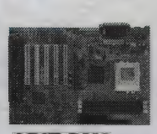


$549 SUPER®

SUPERMICRO S2DG2
- Intel 440GX Chipset
- CPU: Pentium® II/III Xeon™ 400-500 MHz processor support
- Single or Dual Pentium® II/III Xeon™ 400-450MHz
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot (1 shared)
- 4x DIMM Sockets • Running at Bus Speed of 100MHz
- 2GB Maximum On Board Memory • 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, PS/2 Keyboard
- ATX Form Factor 12" x 10.65"
- Adaptec AIC7896 Dual Ultra2 SCSI onboard SCSI.

WITHOUT CPU	**$549**
WITH SINGLE PENTIUM® II XEON™ INSTALLED:	
w/ Intel Pentium® II Xeon™ 400MHz Chip w/512K L2 Cache	$1379
w/ Intel Pentium® II Xeon™ 400MHz Chip w/1MB L2 Cache	$2849
w/ Intel Pentium® II Xeon™ 450MHz Chip w/512K L2 Cache	$1499
w/ Intel Pentium® II Xeon™ 450MHz Chip w/1MB L2 Cache	$3449
w/ Intel Pentium® II Xeon™ 500MHz Chip w/512K L2 Cache	$4899
w/ Intel Pentium® II Xeon™ 500MHz Chip w/1MB L2 Cache	$2999
w/ Intel Pentium® II Xeon™ 500MHz Chip w/2MB L2 Cache	$4579
w/ Intel Pentium® II Xeon™ 550MHz Chip w/512K L2 Cache	$1629

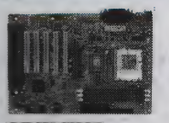
Celeron® Socket 370 Motherboards



$99 ABIT

ABIT BM6
- Intel 440BX Chipset
- CPU: Support Socket 370 Intel Celeron® Processor (Based on 66/100MHz clock)
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor.
- Supports Keyboard and Mouse Wake Up.

WITHOUT CPU	**$99**
WITH SINGLE PENTIUM®II INSTALLED	
w/ Intel Celeron® 333MHz Chip	$179
w/ Intel Celeron® 366MHz Chip	$189
w/ Intel Celeron® 400MHz Chip	$209
w/ Intel Celeron® 433MHz Chip	$259
w/ Intel Celeron® 466MHz Chip	$289



$95 ABIT

ABIT ZM6
- Intel 440ZX Chipset
- CPU: Support Socket 370 Intel Celeron® Processor (Based on 66/100MHz clock)
- 2 ISA Slots, 5 PCI Slots, 1 AGP Slot
- 3x DIMM Sockets
- 256MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor.
- Supports Ultra DMA/33 IDE protocol.

WITHOUT CPU	**$95**
WITH SINGLE PENTIUM®II INSTALLED	
w/ Intel Celeron® 333MHz Chip	$175
w/ Intel Celeron® 366MHz Chip	$185
w/ Intel Celeron® 400MHz Chip	$205
w/ Intel Celeron® 433MHz Chip	$255
w/ Intel Celeron® 466MHz Chip	$285



$135 AOpen

AOPEN MX3ZA
- Intel 440ZX Chipset
- CPU: Socket 370 for Celeron™ Processors 300A–466MHz Supports for 66/100MHz FSB for Intel Celeron Socket 370 CPU
- 1 ISA Slots, 3 PCI Slots
- 2x DIMM Sockets
- 512MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, IrDA
- 220mm x 244mm. Micro ATX form factor.
- Onboard ATI Rage Pro Turbo AGP2/ Onboard ESS Solo 1 PCI Sound.

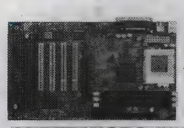
WITHOUT CPU	**$135**
WITH SINGLE PENTIUM®II INSTALLED	
w/ Intel Celeron® 333MHz Chip	$215
w/ Intel Celeron® 366MHz Chip	$225
w/ Intel Celeron® 400MHz Chip	$245
w/ Intel Celeron® 433MHz Chip	$295
w/ Intel Celeron® 466MHz Chip	$325



$95 SOYO

SOYO SY-6IZA
- Intel 440ZX Chipset
- CPU: Socket 370 for Celeron™ Processors 300A–433MHz w/ 128KB L2 Cache. Supports for 66MHz & 100MHz FSB
- 1 ISA Slots, 3 PCI Slots, 1 AGP Slot (1 shared)
- 3x DIMM Sockets
- 256MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- 4 layers, 12" x 6.7". ATX form factor.
- Onboard 3D Audio Subsystem.

WITHOUT CPU	**$95**
WITH SINGLE PENTIUM®II INSTALLED	
w/ Intel Celeron® 333MHz Chip	$175
w/ Intel Celeron® 366MHz Chip	$185
w/ Intel Celeron® 400MHz Chip	$205
w/ Intel Celeron® 433MHz Chip	$255
w/ Intel Celeron® 466MHz Chip	$285

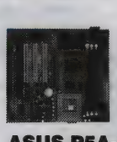


$105 SUPER®

SUPERMICRO 370SBA
- Intel 440BX Chipset
- 66/100MHz FSB
- CPU: Support Socket 370 Intel Celeron® 333-366 Processor
- 3 ISA Slots, 4 PCI Slots, 1 AGP Slot (1 shared)
- 3x DIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- ATX Form Factor.
- 2MB AMI BIOS

WITHOUT CPU	**$105**
WITH SINGLE PENTIUM®II INSTALLED	
w/ Intel Celeron® 333MHz Chip	$185
w/ Intel Celeron® 366MHz Chip	$195
w/ Intel Celeron® 400MHz Chip	$215
w/ Intel Celeron® 433MHz Chip	$265
w/ Intel Celeron® 466MHz Chip	$295

Pentium® Socket 7 AGP Motherboards



$95 512K Cache ASUS

ASUS P5A-B
- ALi Aladdin V AGP Chipset
- CPU: Pentium®/Pentium ® MMX™ 75-233MHz, Cyrix, AMD
- 2 ISA, 3 PCI Slots
- 3x DIMM Sockets
- 256MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, Keyboard, IrDA
- Size: 9.6"x8.7", 2/3. Baby AT Form Factor
- 100MHz Front Side Bus. PC/100 Memory Support.

WITHOUT CPU	**$95**
WITH INTEL PENTIUM® PROCESSOR	
P5MMX-233MHz	$185
WITH AMD-K6™MMX PROCESSOR	
K6-2 PR 350	$165
K6-2 PR 380	$185
K6-2 PR 400	$195
K6-2 PR 450	$225
K6-2 PR 475	$285
K6-3 PR 400	$295
K6-3 PR 450	$355
K6-3 PR 500	$595



$89 512K Cache ASUS

ASUS P5A-B WOA
- ALi Aladdin V AGP Chipset
- CPU: Pentium®/Pentium ® MMX™ 75-233MHz, Cyrix, AMD
- 2 ISA, 3 PCI Slots
- 3x DIMM Sockets
- 384MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, Keyboard, IrDA
- Size: 9.6"x8.7", 2/3. Baby AT Form Factor
- 100MHz Front Side Bus. PC/100 Memory Support.

WITHOUT CPU	**$89**
WITH INTEL PENTIUM® PROCESSOR	
P5MMX-233MHz	$179
WITH AMD-K6™MMX PROCESSOR	
K6-2 PR 350	$159
K6-2 PR 380	$179
K6-2 PR 400	$189
K6-2 PR 450	$219
K6-2 PR 475	$279
K6-3 PR 400	$289
K6-3 PR 450	$349
K6-3 PR 500	$589



$69 1MB Cache FIC

FIC VA-503+
- VIA® Apollo MVP3 Chipset
- CPU: Pentium® w/ MMX™ technology / AMD / Cyrix
- 3 ISA, 3 PCI Slots & 1 AGP Slot
- 2x DIMM Sockets, 4x SIMM Sockets
- PC-100 SDRAM DIMM for 100MHz external system bus clock processors.
- 512MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, PS/2 Keyboard, IrDA
- Size: 9.2" x 8.6", 4 layers PCB, Baby AT form factor.

WITHOUT CPU	**$69**
WITH INTEL PENTIUM® PROCESSOR	
P5MMX-233MHz	$159
WITH AMD-K6™MMX PROCESSOR	
K6-2 PR 350	$139
K6-2 PR 380	$159
K6-2 PR 400	$169
K6-2 PR 450	$199
K6-2 PR 475	$259
K6-3 PR 400	$269
K6-3 PR 450	$329
K6-3 PR 500	$569



$75 1MB Cache SOYO

SOYO SY-5EMA+
- ETEQ 82C6638/6629 AGP Chipset
- CPU: Pentium® w/ MMX™ technology / AMD / Cyrix
- 2 ISA, 5 PCI Slots & 1 AGP Slot
- 3x DIMM Sockets, 2x SIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse & Keyboard, IrDA
- 4 Layer, 12"x7.5", ATX Form Factor
- Support Two Ultra DMA-33 IDE Ports.

WITHOUT CPU	**$75**
WITH INTEL PENTIUM® PROCESSOR	
P5MMX-233MHz	$165
WITH AMD-K6™MMX PROCESSOR	
K6-2 PR 350	$145
K6-2 PR 380	$165
K6-2 PR 400	$175
K6-2 PR 450	$205
K6-2 PR 475	$265
K6-3 PR 400	$275
K6-3 PR 450	$335
K6-3 PR 500	$575



$95 1MB Cache TYAN

TYAN S1590S
- VIA Apollo MVP3 Chipset
- CPU: Pentium® w/ MMX™ technology / AMD / Cyrix
- 4 ISA, 4 PCI Slots & 1 AGP Slot, 1 shared PCI/ISA Slots
- 3x DIMM Sockets, 2x SIMM Sockets
- 768MB Maximum On Board Memory
- 2 Serial, 1 Parallel, 2 USB, PS/2 Mouse, 1 Ir
- Mini-AT design (11.1"x8.75"_Reduced Form Factor.
- On-Board dual channel PCI IDE PIO, IDE DMA & IDE DMA/33

WITHOUT CPU	**$95**
WITH INTEL PENTIUM® PROCESSOR	
P5MMX-233MHz	$185
WITH AMD-K6™MMX PROCESSOR	
K6-2 PR 350	$165
K6-2 PR 380	$185
K6-2 PR 400	$195
K6-2 PR 450	$225
K6-2 PR 475	$285
K6-3 PR 400	$295
K6-3 PR 450	$355
K6-3 PR 500	$595

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IDE HARD DRIVES

Seagate

4.3 GIG	Medalist 4310	128K Cache	9.0ms Access	5,400RPM	Ultra ATA	3 Year Warranty	ST34310A $104
6.4 GIG	Medalist 6422	128K Cache	9.5ms Access	5,400RPM	Ultra ATA	3 Year Warranty	ST36422A $124
8.4 GIG	Medalist 8420	128K Cache	9.0ms Access	5,400RPM	Ultra ATA	3 Year Warranty	ST38420A $130
13 GIG	Medalist 13030	128K Cache	9.0ms Access	5,400RPM	Ultra ATA	3 Year Warranty	ST313030A CALL
13.6 GIG	Medalist 13640	128K Cache	9.5ms Access	5,400RPM	Ultra ATA	3 Year Warranty	ST313640A CALL
17.2 GIG	Medalist 17240	128K Cache	9.0ms Access	5,400RPM	Ultra ATA	3 Year Warranty	ST317240A CALL
10.2 GIG	Medalist	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	ST310230A $161

Quantum

4.3 GIG	Fireball CR	512K Cache	9.5ms Access	5,400RPM	Ultra ATA/66	3 Year Warranty	QU018525 $103
6.4 GIG	Fireball CR	512K Cache	9.5ms Access	5,400RPM	Ultra ATA/66	3 Year Warranty	QU018527 $125
8.4 GIG	Fireball CR	512K Cache	9.5ms Access	5,400RPM	Ultra ATA/66	3 Year Warranty	QU018529 $136
9.1 GIG	Fireball PLUS KA	512K Cache	8.5ms Access	7,200RPM	Ultra ATA/66	3 Year Warranty	QU018537 $202
13.0 GIG	Fireball CR	512K Cache	9.5ms Access	5,400RPM	Ultra ATA/66	3 Year Warranty	QU018531 $219
13.6 GIG	Fireball PLUS KA	512K Cache	8.5ms Access	7,200RPM	Ultra ATA/66	3 Year Warranty	QU018539 $312

Western Digital

4.3 GIG	Caviar	256K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	WD14300A $115
6.4 GIG	Caviar	256K Cache	11ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	WD26400A $130
8.4 GIG	Caviar	256K Cache	11ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	WD28400 $140
10.2 GIG	Caviar	256K Cache	11ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	WD310200A $166
13 GIG	Caviar	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	WDAC313000A $188
20.4 GIG	Caviar	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	WD420400 $300
9.1 GIG	Expert	2MB Cache	9.0ms Access	7,200RPM	Ultra DMA/66	3 Year Warranty	WDAC29100 $212
18.0 GIG	Expert	2MB Cache	9.0ms Access	7,200RPM	Ultra DMA/66	3 Year Warranty	WD418200 $311

IBM

16.8 GIG	Deskstar	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	00K4073 $261
25.0 GIG	Deskstar	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	IBK2512652 $396
14.4 GIG	Ultrastar GXP	512K Cache	9.5ms Access	7,200RPM	Ultra DMA/33	3 Year Warranty	00K4071 $255
22.0 GIG	Ultrastar GXP	512K Cache	9.5ms Access	7,200RPM	Ultra DMA/33	3 Year Warranty	IBK21512661 $402

Fujitsu

4.32 GIG	Fujitsu	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	FJ236657 $120
6.48 GIG	Fujitsu	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	FJ236659 $132
10.2 GIG	Fujitsu	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	FJ236651 $167
13.0 GIG	Fujitsu	512K Cache	9.5ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	FJ236651 $200

Maxtor

6.4 GIG	DiamondMax 4320	256K Cache	9.0ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	MX744704 $123
8.4 GIG	DiamondMax 4320	256K Cache	9.0ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	MX744702 $129
10.0 GIG	DiamondMax 2500	512K Cache	9.0ms Access	7,200RPM	Ultra DMA/33	3 Year Warranty	MX744694 $288
10.2 GIG	DiamondMax 4320	256K Cache	9.0ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	MX744708 $163
17.2 GIG	DiamondMax 4320	256K Cache	9.0ms Access	5,400RPM	Ultra DMA/33	3 Year Warranty	MX744700 $250

SCSI HARD DRIVES

Seagate

9.1 GIG	Barracuda	1MB Cache	6.9ms Access	7,200RPM	Ultra2 SCSI	5 Year Waranty	ST39175LW $402
18.2 GIG	Barracuda	1MB Cache	6.9ms Access	7,200RPM	Ultra2 SCSI	5 Year Waranty	ST318275LW $720
36.4 GIG	Barracuda	1MB Cache	7.4ms Access	7,200RPM	Ultra2 SCSI	5 Year Waranty	ST136475LW $1393
9.1 GIG	Cheetah 18LP	1MB Cache	5.2ms Access	10,000RPM	Ultra2 SCSI	5 Year Waranty	ST39103LW $535
18.2 GIG	Cheetah 18LP	1MB Cache	5.2ms Access	10,000RPM	Ultra2 SCSI	5 Year Waranty	ST318203LW $872

Quantum

18.2 GIG	Atlas IV	2MB Cache	5.0ms Access	10,000RPM	Ultra 160/M SCSI	5 Year Waranty	QU043541 $878
9.1 GIG	Viking II	512K Cache	7.5ms Access	7,200RPM	Ultra2 SCSI	5 Year Waranty	QU30910PXL $438
18.2 GIG	Atlas III	1,024K Cache	7.5ms Access	7,200RPM	Ultra2 SCSI	5 Year Waranty	QU31820TDL $690

Western Digital

4.5 GIG	Enterprise	4MB Cache	7.8ms Access	7,200RPM	Ultra2 LVD SCSI	5 Year Waranty	WD4550LVW4 $334
4.5 GIG	Enterprise	512K Cache	7.8ms Access	7,200RPM	Ultra2 LVD SCSI	3 Year Waranty	WD4550LVW $350
9.1 GIG	Enterprise	512K Cache	7.8ms Access	7,200RPM	Ultra2 LVD SCSI	3 Year Waranty	WD9100LVW $401
18.3 GIG	Enterprise	2MB Cache	6.9ms Access	7,200RPM	Ultra2/Ultra (LVD) SCSI	3 Year Waranty	WD1830048 $771
18.3 GIG	Enterprise	4MB Cache	6.9ms Access	7,200RPM	Ultra2/Ultra (LVD) SCSI	3 Year Waranty	WD1830049 $765

IBM

9.1 GIG	Ultrastar 18ES	2MB Cache	7.5ms Access	7,200RPM	Ultra Wide LVD SCSI	5 Year Waranty	IB407500 $418
18.2 GIG	Ultrastar 18ES	2MB Cache	7.5ms Access	7,200RPM	Ultra Wide LVD SCSI	5 Year Waranty	IBK2511900 $718
36.4 GIG	Ultrastar 18ES	2MB Cache	7.5ms Access	7,200RPM	Ultra Wide LVD SCSI	5 Year Waranty	IB406983 $1347
9.1 GIG	Ultrastar 9LZX	1MB Cache	6.5ms Access	10,000RPM	Ultra Wide LVD SCSI	5 Year Waranty	IB406985 $564
18.2 GIG	Ultrastar 9LZX	4MB Cache	5.3ms Access	10,000RPM	Ultra Wide LVD SCSI	5 Year Waranty	IB406975 $550

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IBM. FUJITSU WESTERN DIGITAL
Seagate Quantum Maxtor

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MONITORS

Optiquest Q51	15" (13.7" viewable)	1024x768	.28mm dot pitch	VS20406	$154
Optiquest Q71	17" (16.0" viewable)	1280x1024	.27mm dot pitch	VS231906	$246
Optiquest V95	19" (18.0" viewable)	1600x1280	.26mm dot pitch	CMOPV95	$459
Princeton Ultra52	15" (13.8" viewable)	1280x1024	.28mm dot pitch	CMPGU52	$158
Princeton Ultra72	17" (15.8" viewable)	1280x1024	.27mm dot pitch	CMPGU72	$209
Princeton Ultra75	17" (15.7" viewable)	1280x1024	.27mm dot pitch	CMPGU75	$232
Princeton EO500	15" (13.9" viewable)	1280x1024	.28mm dot pitch	CMPGE0500	$188
Princeton EO505	15" (13.8" viewable)	1280x1024	.28mm dot pitch	CMPGE0505	$214
Princeton EO705	17" (15.9" viewable)	1280x1024	.27mm dot pitch	CMPGE0705	$237
Princeton EO700	17" (15.9" viewable)	1280x1024	.27mm dot pitch	CMPGE0700	$280
Princeton EO710	17" (15.9" viewable)	1280x1024	.26mm dot pitch	CMPGE0710	$305
Princeton EO720	17" (15.9" viewable)	1280x1024	.26mm dot pitch	CMPGE0720	$295
Princeton EO750	17" (16.0" viewable)	1600x1200	.26mm dot pitch	CMPGE0750	$359
Princeton EO900	19" (18.1" viewable)	1600x1200	.26mm dot pitch	CMPGE0900	$485
ViewSonic E655	15" (13.8" viewable)	1280x1024	.28mm dot pitch	E655	$178
ViewSonic E771	17" (16.0" viewable)	1280x1024	.27mm dot pitch	E771	$264
ViewSonic G810	21" (20.0" viewable)	1600x1200	.25mm dot pitch	G810	$841
ViewSonic GS771	17" (16.0" viewable)	1280x1024	.27mm dot pitch	GS771	$342
ViewSonic PS775	17" (16.0" viewable)	1600x1200	.25mm dot pitch	PS775	$427
ViewSonic PS790	19" (18.0" viewable)	1600x1280	.25mm dot pitch	PS790	$582

LCD FLAT PANEL MONITORS

Number 9 1600SW	17" (17" viewable)	1600x1024	TFT LCD Display	N9520058	$2499
Princeton DPP500	14" (14" viewable)	1024x768	TFT LCD Display	CMPGDPP500	$816
Princeton DPP560	15" (15" viewable)	1024x768	TFT LCD Display	CMDPP560P	$1046
ViewSonic VP140	14" (14" viewable)	1024x768	TFT Active Matrix ViewPanel	VS609409	$879
ViewSonic VP140-2	14" (14" viewable)	1024x768	TFT LCD Display	VSVPA1402	$947
ViewSonic VPA150	15" (15" viewable)	1024x768	Multimedia Pivoting ViewPanel	VSVPA150	$1195
ViewSonic VG180	18" (18" viewable)	1280x1024	TFT Active Matrix ViewPanel	VS979417	$2899

PRINTERS

HP DeskJet 720C Inkjet Printer Max. Std. Resolution: 600x600 dpi , Page per Min: 5ppm B&W, 1.5ppm Color, Up to 16.7 million color output, Max Page Size: 8.5" x 14"	HP433941	$229
HP LaserJet 1100 Series Laser Printer Max. Std. Resolution: 600x600 dpi , Page per Min: 8ppm speed, 2MB RAM memory (18MB Max), Max Page Size: 8.5" x 14"	HPC4219A	$375
HP DeskJet 710C Deskjet Printer Max. Std. Resolution: 600 dpi , Page per Min: 6ppm B&W, 3ppm Color, Up to 16.7 million color output, Max Page Size: 8.5" x 14"	HPDJ710C	$190
XEROX DocuPrint P8E Laser Printer, 1 Year Xerox Warranty Max. Std. Resolution: 600x600 dpi Page per Min: 8ppm, Load up to 150 sheets	XE609937	$323
OKIDATA Okipage 6e LED Printer 1MB Standard RAM memory, (20MB recommended) Max. Std. Resolution: 300x1200 dpi, Page per Min: 6ppm, Max Page Size: 8.5" x 14"	OK596416	$248
EPSON Stylus Color 440 Inkjet Printer Max. Std. Resolution: 720x720 dpi , Page per Min: 4ppm B&W, 2.5ppm Color, includes EPSON's PerfectPicture Imaging System, Max Page Size: 8.26" x 10.76"	EP867505	$122

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4.3GB UDMA	$ 85.99
6.4GB UDMA	$103.99
8.4GB UDMA	$116.99
10GB UDMA	$139.99
4.3 GB WD	$102.99
6.4 GB WD	$114.99
8.4 GB WD	$124.99
10 GB WD	$139.99
13.1GB WD	$159.99
4.3GB Maxtor	$ 88.99
6.8GB Maxtor	$107.99
13.6GB Maxtor	$159.99
17.2GB Maxtor	$219.99
10.1GB 7200 RPM IBM	$228.99
Zip Drive 100MB INT ATAPI	$ 65.99

Memory

32 MB SDRAM	$ 26.99
64 MB SDRAM	$ 43.99
128 MB SDRAM	$ 85.99
32 MB SDRAM PC 100	$ 21.99
64 MB SDRAM PC 100	$ 39.99
128 MB SDRAM PC 100	$ 85.99
256 MB SDRAM PC 100	$199.99

Please call for current prices

Mega Blow Out Sale w/ 15" monitor

MSC ON SITE

Internet Ready - Multimedia System w/ Fax Modem

- Multimedia System
- 32 MB SDRAM 10nS
- 3.2 GB EIDE HDD
- 56K Fax Modem w/ Voice
- SVGA Window Accelerator Video Card
- 40x EIDE CD-ROM Yamaha 3D Full Duplex PnP Sound System
- 500 CD Titles
- 80W Power Amplified Speakers
- MSC Tower Case, 1.44 MB FDD
- Win98 Keyboard
- Add Windows 98 for $99.99
- 15" Monitor

intel®

Celeron 333 w/128k	$459
Celeron 366 w/128k	$479
Celeron 400 w/128k	$499
Pentium II 333	$499
Pentium II 350	$549
Pentium II 400	$569
Pentium III 450	$629

AMD K6

3D K6-2 350	$449
3D K6-2 400	$469
3D K6-2 450	$489

Color Printer @ $99

Intel Celeron 333 **$459**

Intel Celeron 400 Multimedia

- Celeron400
- 32 MB SDRAM
- 3.2GB HDD
- 1.44 MB FDD
- Video Card
- 32x CD-ROM
- Sound Card
- Speakers
- Keyboard
- Case

$339

monitor not included

U Asked 4 It Power 4 Less w/ 17" Monitor

MSC ON SITE

- Motherboard
- 64 MB SDRAM 10 nS
- 6.4 GB Ultra DMA HDD
- 1.44 MB FDD
- ATI Expert 98 8 MB or Diamond Stealth 8 MB Speed Star AGP
- 56k Fax Modem V.90
- 40x CD-ROM
- Full Duplex PnP Sound System
- Amplified Speakers
- Over 1,000 CD Titles
- 17" Monitor SVGA .28 do N.I.
- MSC Tower Case
- Win98 Keyboard
- Add Windows 98 for $99.99

intel®

Pentium II 350	$699
Pentium II 400	$719
Pentium III 450	$799
Pentium III 500	$979
Pentium III 550	$1,259
Celeron 333	$599
Celeron 366	$629
Celeron 400	$649

AMD K6

3D K6-2 400	$599
3D K6-2 450	$639
3D K6-3 400	$699
3D K6-3 450	$729

AMD 3D K6-2 300 **$599**

Network Card / Hub / Cables/ Sony Camera

10 / 100base T / 3Com NetworkCard	$19.99/ $ 49.99
8 Port / 16 Port Hub	$ 29.99/$ 59.99
12ft / 25ft / 50ft printer cables	$7.99 /$11.99/$ 19.99
Sony Cameras FD 73 / 83 / 91	$459.99/ $629.99/ $899.99

CD-ROM, Sound Cards & Multimedia

40X / 45X CD-ROM	$29.99 /$call
Toshiba 32X / 40X CD ROM	$44.99 /$52.99
Sound Blaster 64 PCI	$25.99
Sound Blaster AWE128 PCI	$35.99
Sound Blaster Live Value	$52.99
Toshiba DVD 3rd Generation Kit	$149.99
Mitsumi 4x4x6 CD-RW Writer	$169.99
Yamaha SCSI CRW 4116	$ call
USB Camera	$49.99
44X CD ROM w/ Sound Card. Spks & CD Titles	$49.99

The Stallion w/ 15" Monitor

MSC ON SITE

- Internet Ready
- Motherboard w/ 512k plb cache, supports Ultra DMA HDD up to 33 MB/Sec.
- 4.3 GB UDMA HDD
- 64 MB SDRAM 10nS
- 1.44 MB FDD
- 40x CD-ROM
- Full duplex PnP sound card
- Speakers
- SVGA window Accelerator
- MSC Tower Case
- Win98 Keyboard
- 56k Fax MODEM V.90
- 15" SVGA .28 N.I. Color monitor
- Add Windows 98 for $99.99

intel®

Celeron 333 w/ 128k	$479
Celeron 366 w/ 128k	$499
Celeron 400 w/ 128k	$529
Pentium II 333	$539
Pentium II 350	$579
Pentium II 400	$599
Pentium III 450	$699
Pentium III 500	$899

AMD K6

3D K6-2 350	$479
3D K6-2 400	$499
3D K6-2 450	$519
3D K6-3 400	$599
3D K6-3 450	$629

AMD 3D K6-2 400 **$499**

Printers / Scanners / Tower Cases Fax Modem / Accessories

Epson Stylus 640 / HP1100 Xi Laser Printer	$175.99/ $379.99
Photo Maker Color Scanner	$ 49.99
Full / ATX / Mid / Mini / Desktop Cases	$ call
56K / 3Com USR Fax Modem w/ Voice	$19.99/ $ 69.99

Video Cards & Monitors

15" 17" 19" N.I.Monitors	$119.99/$189.99 / $359.99
Viewsonic17" 15" Active Matrix LCD	$ call
SIS 8MB SIS 8MB w/ TV Output	$29.99 / $ 38.99
Diamond SpeedStar 8MB AGP	$ 42.99
Diamond Voodoo III 3000 w/ TV Output	$125.99
Diamond Monster 16MB Fusion	$ 89.99
Diamond Viper 550 16MB / V770 32MB	$92.99 / $149.99
Creative 16MB Banshee / Riva TNT	$74.99 / $ 84.99
ATi Xpert 98 / Xpert 99 8MB	$39.99 / $ 59.99
ATi All in Wonder Pro 8MB 16MB	$107.99 /$CALL
ATi Rage 128 16MB/ Fury 32MB AGP	$84.99 / $142.99

UpGrade your PC

- Pentium II Bx Pro/ AGP Motherboard
- 32 MB SDRAM
- 3D Sound Card
- 8MB Video Card
- MSC Tower Case

333 MHz **$179**

Intel Celeron 333 $179
AMD 3D K6-2 400 $199
Intel Pentium II 400 $289

Server & Workstation 400 MHz

- Pentium BX Pro PC100 Motherboard
- 128 32 SDRAM 1.44 FDD Keyboard
- 6.4 4.3 GB UDMA HDD
- 8MB 3D AGP Video
- 36X CD ROM, Sound Card
- Tower Cases, Network Card

AMD 3D K6-2 400 **$349**

Pentium II 400 MHz **$499**

Pentium III

- Motherboard for Pentium III CPU
- 64 MB SDRAM, FDD, Keyboard
- 4.3 GB HDD, Tower Case
- 8 MB 3D AGP Video
- 24X CD-Rom, Speakers
- Sound Card

Intel Pentium III 450 **$499**

Intel Pentium III 500 **$699**

* All systems come with 1 year parts and labor warranty up to four years. Prices and product availability are subject to change without notice. Call for current prices. We are not responsible for typographical errors. 20% restocking for returns. **Limit right reserved per family, per office. All names are trademarks of respective manufacturers. Shipping Charges are non-refundable.

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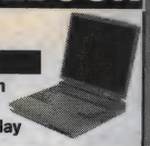
NEW TOSHIBA NOTEBOOKS ON SALE !!!

NEW NOTEBOOK
TOSHIBA
Satellite 2060CDS
- 333MHz AMD K6-2
- 4.3 HD ■ 32MB
- 12.1" DSTN Display
- 24X CD-ROM
- 56K Modem



$1399

NEW NOTEBOOK
TOSHIBA
Satellite 2590CDT
- 400MHz intel Celeron
- 6.4 HD ■ 64MB
- 12.1" TFT Active Display
- 24X CD-ROM
- 56K Modem



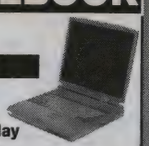
$1799

NEW NOTEBOOK
TOSHIBA
Satellite 4090XDVD
- 400MHz intel Celeron
- 6.4 HD ■ 64MB
- 14.1" TFT Active Display
- 2X DVD CD-ROM
- 56K Modem



$2399

NEW NOTEBOOK
TOSHIBA
Satellite 4100XDVD
- 400MHz Pentium II
- 6.4 HD ■ 64MB
- 14.1" TFT Active Display
- 2X DVD CD-ROM
- 56K Modem



$2799

NOTEBOOKS

TOSHIBA **Satellite 4080XCDT**



- PII 366MHz Intel
- 6.4 HD ■ 64MB
- 14.1" TFT Display
- 24X CD-ROM
- 56K V.90 Modem
- Windows 98
- 512KB
- USB ■ LION
- 1 Year Warranty
- 3D Sound

$2479

Libretto 110CT	P 233MMX, 7.1" TFT, 32/4.3, 56K, 2.35 lbs Win98	**$1499**
Satellite 2540CDS	K6-2 333MHz, 13" DSTN, 32/4.3, 24X, 56K V.90 Win98	**$1279**
Satellite 4020CDT	PII 300, 13.3" TFT, 64/6.4, 24X, 56K V.90, 7.0 lbs Win98.	**CALL**
Satellite 4030CDT	Cel 300, 13.3" TFT, 64/4.1, 24X, 56K V.90, 7.0 lbs Win98.	**$1749***
Satellite 4060CDT	PII 333, 13.3" TFT, 64/4.1, 24X, 56K V.90 Win98	**$2299***
Satellite 4080xCDT	PII 366, 14.1" TFT, 64/6.4, 24X, 56K V.90 Win98	**$2499***
Portege 3110CT	PII 300, 10.4" TFT, 64/6.4, 56K V.90 Win98 2.9lbs (NEW!)	**$2299***
Portege 3020CT	P 300MMX, 10.4" TFT, 32/6.4, 56K V.90, 2.9 lbs. (NEW!)	**$1799***
Portege 7010CT	PII 300, 12.1" TFT, 32/4.3, 56K , 4.1 lbs., 3YR Wrnty	**$2699***
Portege 7020CT	PII 366, 13.3" TFT, 64/6.4, 56K , 4.17 lbs., 3YR Wrnty	**$3299***
Tecra 8000-7951	PII 266, 13.3" TFT, 64/6.4, 24X, 56K, 3YR Warranty	**$2599***
Tecra 8000-KA51	PII 366, 14.1" TFT, 64/8.1, 24X, 56K , 3YR Warranty	**$3599***

*Windows NT Versions also available

COMPAQ **Presario 1260**



- 333MHz K6-2 3D NOW! Processor
- 12.1 TFT Active COLOR Display
- 4.0 GB HDD ■ 64 MB RAM
- 24X CD-ROM ■ 56K V.90 Modem
- Li-Ion Battery ■ Scroll Button!
- 512KB L2 Pipeline
- JBL Pro Audio

$1496

Presario 1275	366MHz! K6-2 3DNow!, 13" HPA, 32/4.3, 24X, 56K, Li-Ion Battery	**$1596**
Presario 1685	380MHz! K6-2 3DNow!, 12.1" TFT, 64/4.3, DVD, 56K, Li-Ion Battery	**$1996**
Presario 1688	400MHz! K6-2 3DNow!, 13.3" TFT, 64/4.8, 24X, 56K, 8MB Video	**$2296**
Presario 1690	400MHz! K6-2 3DNow!, 14.1" TFT, 64/6.4, 4XDVD, 56K, 8MB Video	**$2496**
Presario 1925	Cel 400MHz , 13.3" TFT, 64/6.4, 4X DVD, 56K, *Ultra Slim!*	**$2696**
Presario 1825	366MHz! Pentium II !, **15" TFT**, 64/6.4, 4X DVD, 56K, 8MB Video	**$2996**

SHARP

Actius A250	PII 300 MHz!, 11.3" TFT, 64MB/6.4GB, 56K, Only 2.9 lbs.	**$2399**

UMAX

ActionBook 333T	333MHz! K6-2 3DNow!, 12.1" TFT, 32/3.2, 24X, 56K, Win 98	**$1195**
ActionBook 533T	333MHz! K6-2 3DNow!, 13.3" TFT, 32/4.3, 24X, 56K, 3 yr wrnty	**$1395**
ActionBook 736T	Intel P II 266 MMX, 13.3" TFT, 64/4.0, 24X, 56K, 3 yr wrnty	**$1795**

MONITORS

Pixie 555	15" (13.8" VIS), 1024x768, 0.28mm, Digital Controls	$129
Pixie 995	19" (18.0" VIS), 1600x1200, 0.22mm, External Controls	$349
AOC	15"(13.8"VIS), 1024x768, 0.28mm, Unlimited Colors	$125
AOC	17"(15.8"VIS), 1280x1024, 0.28mm, Mulitmedia Speakers	$219

DESKTOPS

Compaq Bundles !



- 366MHz MII MMX
- 4.3 HD ■ 64MB
- MV520 15" Monitor
- IJ200 Inkjet Printer

* After $150 Mail-in Rebate

$817*

COMPAQ *PRESARIO MINI-TOWER'S WITH AGP GRAPHICS*

5304	366MHz MII, 4.3GB/64MB, 32X CD, 56K ITU V.90	$596
5340	400MHz AMD-K6-2, 4.3GB/96MB, 32X CD, 56K ITU V.90	$796
5360	450MHz AMD-K6-2, 10GB/64MB, 32X CD, 56K, 512K L2	$996
5716	450MHz Intel P III, 15GB/96MB, 6X DVD, 1.5MB DSL/56k, ZIP	$1596
5726	500MHz Intel P III, 19GB/96MB, 6X DVD, 56k/1.5MB, ZIP	$1796
5736	550MHz Intel P III, 19GB/128MB , 6X DVD 56K V. 90, ZIP	$1975

HANDHELD/ PDAs

3Com *NEW PALM PILOT VII WITH WIRELEE INTERNET !*

Palm III	Palm OS 3.0, Backlit, 2MB, Synch Cradle	$239
PalmIIIx	Palm OS 3.0, Backlit, 4MB, Synch Cradle	$335
Palm V	Ultra Slim Aluminum case, Li-Ion Battery, Backlit	$389
Palm VII	Wireless Internet!!, Li-Ion Battery, Backlit	$589

COMPAQ *NEW AERO HANDHELD PC WITH ACTIVE TFT COLOR!*

Aero 2130	TFT Color, WinCE, 16MB, Voice recorder, Active Synch	$496

HEWLETT PACKARD *NEW EMAIL HANDHELD PC COMPANION!*

Jornada 8 20	CSTN Color, WinCE 2.2, 16MB, 56K, 190MHz CPU	$779

PRINTERS

FREE 6' IEEE PRINTER CABLE WITH EVERY PRINTER

Canon *NEW BJC-6000 Features 6 separate ink cartridges!*

BJC-6000	1440x720 dpi COLOR , 8 PPM,	$229

Affordable Printing. No Compromises.

BJC-1000	720x360 dpi COLOR , 4 PPM, Compact Design	$109

Small Size. Big Printing Performance

BJC-2000	720x360 dpi COLOR 5 PPM, Scanner Option	$129
BJC-5100	**1440x720 dpi 7-COLOR , 10 PPM, Up to11" x 17"**	**$189**
BJC-80	720x360 dpi COLOR, 4.5 PPM, PORTABLE!	$269
BJC-50	720x360 dpi COLOR , 5.5 PPM, PORTABLE!	$319

EPSON *NEW STYLUS 1200 FEATURES 13"x19" Print Area*

Stylus 440	720x720 COLOR Ink Jet, 4PPM	$119
Stylus 640	1440x720 COLOR Ink Jet, 5 PPM	$139*
Stylus 740	1440x720 COLOR Ink Jet, 5 PPM, 6 color printing	$199**
Stylus 750	1440x720 COLOR Ink Jet, USB, 6 color printing	CALL
Stylus 850	1440dpi COLOR, MicroDot, 9 PPM	$269
Stylus 900	1440dpi COLOR Ink Jet, 12 PPM, USB	$419
Stylus 1200	1440dpi COLOR USB/Parallel nk Jet, 13" x 19"	$479

* After $30 Mail-in Rebate ** After $50 Mail-in Rebate

LEXMARK *LASER QUALITY TEXT!*

CJ1100	600x600 COLOR, 3.5 PPM, 4-Color Printing	$49**
CJ Z11	1200DPI COLOR 4 PPM Accu-Feed System.	$89*
CJ 3200	1200DPI COLOR, 6 PPM, Photo-Quality Color	$119**
CJ 5700	1200DPI COLOR, 8 PPM, Photo-Quality Color	$179**
CJ Z51	1200DPI COLOR Ink Jet, 10 PPM, 7pl Drop Size	$219**

* after $30 mail-in rebate. ** after $50 mail-in rebate.

brother

MP-21C	720X720DPI Portable Ink Jet Printer PCMCIA	$299
MP-21CDX	720X720DPI Portable Ink Jet Printer PCMCIA	$349

DIGITAL CAMERAS

Canon *POWERSHOT A5 AWARDED EDITORS CHOICE!*

PS A50	1280X960 , 2" TFT LCD "Smallest Zoom Lens-Equipped Camera"	$479
PS PRO 70	1536X1024, 2" CLR LCD, 4 FPS, 28-70mm f/2.0-2.4 zoom	$1079

EPSON *NEW PHOTOPC 750Z STORES UP TO 178 STANDARD IMAGES!*

PhotoPC 750Z	1600x1200, 2" CLR LCD, 4MB/8MB CF card, 6X Zoom	$598
PhotoPC 800	1984x1488, 1.8" CLR LCD, 8MB CF card, 6X Zoom USB	$679

Mustek *ATTACH THE MDC-800 DIRECTLY TO YOUR TV OR VCR!*

VDC-200	640x480, 2MB, 24BIT, 1.8" LCD	$169
VDC-300	640x480, 2MB, 24BIT, 1.8" LCD USB	$189

TOSHIBA *35MM PICTURE QUALITY THAT FITS IN YOUR POCKET!*

PDR-M3	1280x1024, 1.8" CLR LCD, Built-in Flash, 3X Zoom!	$549
PDR-M4	1600x1200, 1.8" CLR LCD, 16MB, USB, 2X Zoom, FLASH	$649

KODAK *DC-280 WITH TIME LAPSE TECHNOLOGY REDUCED!*

DC-210+	1152x864, 2X-4X Zoom, 8MB Picture Card, USB , Audio/Video	$569
DC-260 Zoom	NEW Pro Edition Camera 6X Zoom, 16 MB	$CALL

OLYMPUS *COMPLETE LINE IN-STOCK! CALL FOR LOWEST PRICE!*

D-340R	1280x960, F2.8 Lens, 4MB, SmartMedia, FlashPath Adapter	$449
D-620L	1280x1024, 3X Zoom, 8MB, SmartMedia, LCD Display	$899
C-2000Z	1600x1200, 3X Zoom, 2.1 Megapixels,1.8" LCD Display	$949

SONY. *COMPLETE LINE IN-STOCK! CALL FOR LOWEST PRICE!*

Mavica FD61	640x480, 2.5" COLOR LCD, 3.5" Floppy Drive, Built-in Flash	$437
Mavica FD71	640x480, 2.5" COLOR LCD, 3.5" Floppy Drive, 10X Zoom	$617
Mavica FD81	1024x768, 2.5" COLOR LCD, 3.5" Floppy Drive, 3X Zoom	$687
Mavica FD91	1024x768, 2.5" COLOR LCD, Autofocus, 14X Zoom	$887

SCANNERS

Canon *ULTRA SMALL FOOTPRINT TAKES UP LESS DESK SPACE!*

CanoScan 620P	600x600 dpi Flatbed, 30-bit Color, Parallel Port Interface	$97
CanoScan 620U	600x600 dpi Flatbed, 30-bit Color, USB Interface	$119
CanoScan 1200S	1200x1200 dpi Flatbed, 36-bit Color, SCSI Interface	$459

Acer **20 Mail-in Rebates*

AcerScan 320P	300x600 dpi Flatbed, 36-bit Color, Parallel Port Interface	$69
AcerScan 320U	300x600 dpi Flatbed, 36-bit Color, USB Interface	$79
AcerScan 620P	600x1200 dpi Fltbd, 36-bit Color, Parallel Port Interface	$69*
AcerScan 620U	600x1200 dpi Flatbed, 36-bit Color, USB Interface	$97*

MICROTEK **30 Mail-in Rebates*

SlimScan C6	600x1200 dpi Flatbed, 36-bit, Universal Serial Bus	$87
ScanMaker X6	600x1200 dpi , 36-bit, USB, Parallel, or SCSI Port	$99*
ImageDeck	*NO PC NEEDED!! Stand Alone Color Image Center*	$449

UMAX ** after $10 mail-in rebate. **30 mail-in rebate*

Astra 1220P	600x1200 dpi Flatbed, 36-bit Color, Parallel Port Interface	$79
Astra 1220U	600x1200 dpi Flatbed, 36-bit Color, Universal Serial Bus Port	$99**
Astra 2000P	600x1200 dpi Flatbed, 36-bit Color, Parallel Interface	$95
Astra 2000U	600x1200 dpi Flatbed, 36bit Color, USB Interface	$129

Mustek *NEW 1200 ED WITH 48BIT ENHANCED COLOR DEPTH!*

PlugScan 1200 ED	600X1200 dpi Flatbed, 48-bit enhanced Color, Parallel Port	$89
PlugScan 600 CP	300x600 dpi Flatbed, 30-bit Color, Parallel Port connection	$79
PlugScan 1200CU	USB (PC/iMac compatible) CIS technology: only 1" thin!	$89

MULTIFUNCTION

Canon **After $50 Mail-in Rebate ** After $100 Mail-in Rebate*

MP-C3500	720dpi COLOR Printer/Copier, 14.4K PC Fax, 400dpi Scanner	$229*
MP-C5500	720dpi COLOR Printer/Copier, 14.4K PC Fax, 600dpi Scanner	$289**
MP-L6000	600dpi LASER Printer/Copier, 14.4K PC Fax, 600dpi Scanner	$549

brother *VISIT OUR WEB-SITE FOR ALL YOUR INK AND PAPER!*

MFC-4350	600dpi LASER Printer, 14.4K PC Fax, 400dpi Copier	$376
MFC-7150c	1440x720dpi COLOR Printer, Copier, Scanner, Fax, Video Capt	$449

COMPAQ

A900	1200x1200dpi Color Printer, Copier, Scanner, Fax, 8ppm Printer	$396

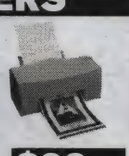
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NOTEBOOKS
TOSHIBA
Portege 3010CT
- P266MMX
- 10.4" TFT Color Display
- 4.3 HD ■ 64MB
- 56K Modem
- 24x CD



$1199

PRINTERS
Canon
BJC-7004 MRB
- BubbleJet Printer
- 1200 x 600 DPI
- 6.5 PPM Black
- 7 Color Photo
- 1 Year Warranty



$99

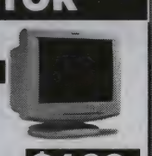
PRINTERS
EPSON
Stylus 640-RB
- 1440x720 DPI
- 6PPM
- 4 Color
- Photo Quality
- 1 Year Warranty

* After $30 Mail-in Rebate



$109*

MONITOR
TOSHIBA
AutoScan DP-782
- .26mm
- 16.23" VIS
- Anti-Static
- Anti-Glare
- 1280x1024 @ 75Hz



$169

NOTEBOOKS

TOSHIBA *TOSHIBA RE-MANUFACTURED AND FACTORY SEALED ENCORE NOTEBOOKS!*

Libretto 100CT	P166MMX, 7.1" TFT, 32MB/2.1GB, IrDA, 2.35 Pounds	$1049
Libretto 110CT	P233MMX, 7.1" TFT, 32MB/4.3GB, IrDA, 2.35 Pounds	$1199
Satellite 335CDS	P266MMX, 12.1" DSTN, 32MB/4.1GB, 20X CD, 56K Modem	$999
Satellite 335CDT	P266MMX, 12.1" TFT, 32MB/4.1GB, 20X CD, 56K Modem	$1149
Satellite 2505CDS	P233MMX, 12.1" DSTN, 32MB/2.02GB, 20X CD, 56K Modem	$949
Satellite 2515CDS	P266MMX, 12.1" DSTN, 32MB/4.3GB, 24X CD, 56K Modem	$1029
Satellite 2535CDS	P300MMX, 13.0" DSTN, 32MB/4.3GB, 24X CD, 56K Modem	$1099
Satellite 2545CDS	333 K6-2 MMX, 13.0" DSTN, 32MB/4.3GB, 24X CD, 56K Modem	$1199
Satellite 2545XCDT	333 K6-2 MMX, 14.1" TFT, 64MB/4.3GB, 24X CD, 56K Modem	$1599
Satellite 4025CDT	PII300MHz, 13.3" TFT, 64MB/6.4GB, 24X CD, 56K Modem	$1749
Satellite 4030CDT	Cel 300MHz, 13.3" TFT, 64MB/4.1GB, 24X CD, 56K V.90 Modem	$1699
Satellite 4060CDT	PII333MHz, 13.3" TFT, 64MB/4.1GB, 24X CD, 56K V.90 Modem	$2049
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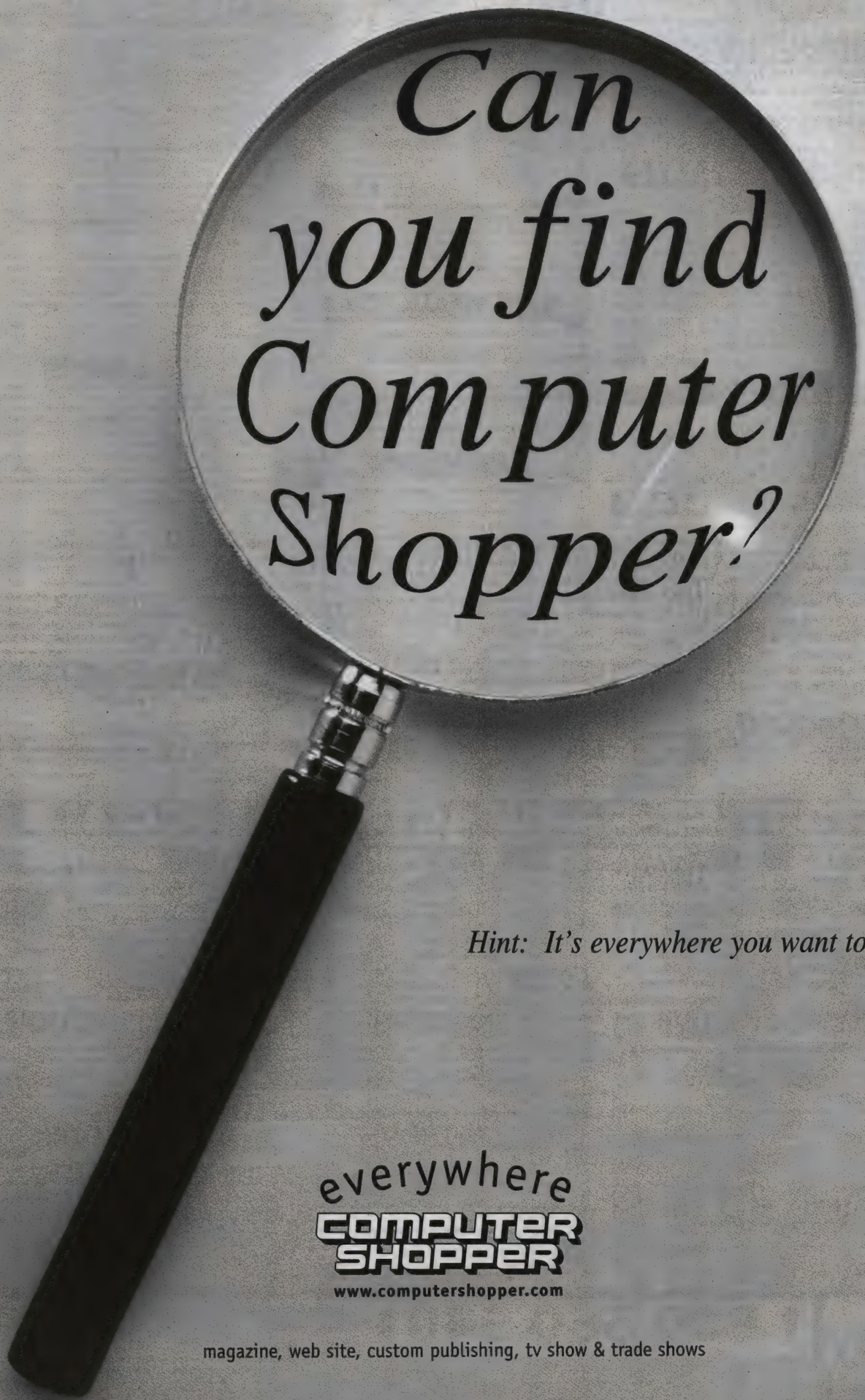
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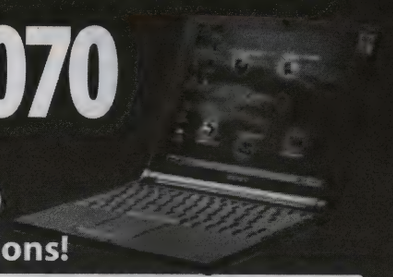
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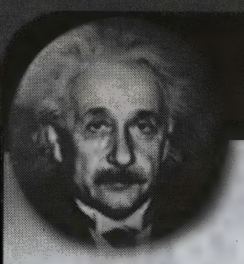
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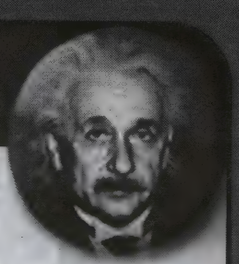
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SDRAM ..... *used in 66MHz motherboards.*
PC100 SDRAM .. *used in 66MHz & 100MHz motherboards.*
PC100 CAS2 .... *used in 100MHz motherboards and for systems tweaked above 100MHz.*
ECC ..... *means Error Correction Code.*

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Intel 450MHz **Pentium III** Processor		$269
Intel 500MHz **Pentium III** Processor		$489
Intel 550MHz **Pentium III** Processor		$775
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Intel 366MHz Celeron® w/128 cache	$79	$72
Intel 400MHz Celeron® w/128 cache	$104	$99
Intel 433MHz Celeron® w/128 cache	$145	$135
Intel 466MHz Celeron® w/128 cache	$169	$169
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AMD-K6-2 380MHz Processors		$79
AMD-K6-2 400MHz Processors		$85
AMD-K6-2 450MHz Processors		$115
AMD-K6-2 475MHz Processors		$166
AMD-K6-3 400MHz Processors		$185
AMD-K6-3 450MHz Processors		$239
AMD-K6-3 500MHz Processors		$435

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Latitude LX Series 410D/T/4750		$75			$119
Latitude XP/XPI Series	$33	$56			$219
Latitude LM Series	$35	$57	$113	$140	$228
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Lifebook 600-900 Series		$36	$47	$83	CALL
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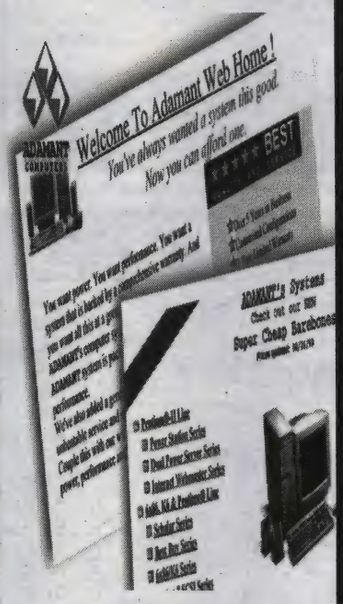
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- Corel Word Perfect Suite 8
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- Sound Blaster AWE-64 Sound Card
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- 104 Key Enhanced Keyboard
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- Microsoft Windows-98 on CD
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- PC-DVD 6x Generation
- LS-120 1.44/120MB SuperDisk Drive
- Sound Blaster AWE-64 Sound Card
- 17" 1280x1024 SVGA Monitor
- 104 Key Enhanced Keyboard
- Stereo Speakers, w/Subwoofer2 button Mouse
- Microsoft Windows-98 on CD
- Corel Word Perfect Suite 8
- McAfee Virus Scan, DVD Title
- 3 Years Parts, Lifetime Labor Warranty

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- PCI 10/100BASE-T Lan Card
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- 104 Key Enhanced Keyboard
- Stereo Speakers, 2 button Mouse
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- Corel Word Perfect Suite 8
- McAfee Virus Scan, DVD Title
- 3 Years Parts, Lifetime Labor Warranty

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- 56K Data/Fax/Voice Modem
- 50x CD-ROM Drive
- 3.5" 1.44 MB Floppy Drive
- Sound Pro 3D PCI Sound Card
- PCI 10/100BASE-T Lan Card
- 15"1024x768 SVGA Monitor
- 104 Key Enhanced Keyboard
- Stereo Speakers, 2 button Mouse
- Microsoft Windows-98 on CD
- Corel Word Perfect Suite 8
- McAfee Virus Scan, CD Games Bundle
- 3 Years Parts, Lifetime Labor Warranty

AMD K6-2 3D 400MHz $735
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AMD K6-2 3D 500MHz $875
AMD K6-2 3D 400/450MHz $845/895

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1-Serial Port, 1-Printer Port
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Windows-98 Operation System on CD
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64 MB Memory
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DVD ROM Drive
1.44MB Floppy Drive
3D PnP Sound Card w/Speaker & Microphone Connectors
8MB ATI Rage Pro 2xAGP
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2-PCMCIA Slots, 1-IRDA Port
2-USB Ports, 1-SVGA Port, TV Output
1-Serial Port, 1-Printer Port
PS/2 Mouse and Keyboard Connector
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1 Year Parts/Labor Warranty

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DFI P5BV3+, AT $69



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AMD K6-2 3D 400MHz $149
AMD K6-2 3D 450MHz $179
AMD K6-2 3D 500MHz $299
AMD K6-III 3D 400MHz $249
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DFI P5XV3+, ATX $75

FIC 503+, AT $69



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FIC 2013, ATX $75

GIGABYTE 5AX, ATX $69



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AMD K6-III 3D 450MHz $305

GIGABYTE 5AA, AT $69

ASUS P5-A, ATX..... $88



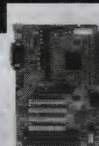
ALI Aladdin-V Chipset, 100MHz Bus Speed, 5-PCI, 2-ISA, 1-AGP Slots, 512K Cache, 3-168 pin Memory Slots, Award PnP BIOS, 2-USB Ports, Built-in Ultra IDE and I/O Controller, ATX Form Factor

ASUS

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ASUS P5A-B, AT $85

GIGABYTE 6BX2000,ATX...$109



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Intel® Celeron™ 433MHz $255
Intel® Celeron™ 466MHz $295
Pentium® II 400MHz $305
Pentium® III 450MHz $395
Pentium® III 500MHz $615
Pentium® III 550MHz $855

GIGABYTE 6BA, AT $109

ABIT AB-BH6, ATX $92



Intel 440BX Chipset, 100MHz Bus Speed, 5-PCI, 2-ISA Slots, 1-AGP Slot, 3-168 pin Memory Slots, Award PnP BIOS, 2-USB Ports, Build-in Ultra IDE and I/O Controller, ATX Form Factor

Intel® Celeron™ 400MHz $199
Intel® Celeron™ 433MHz $239
Intel® Celeron™ 466MHz $279
Pentium® II 400MHz $289
Pentium® III 450MHz $379
Pentium® III 500MHz $599
Pentium® III 500MHz $839

ABIT AB-BX6, ATX $109

ASUS P2B-F, ATX $119



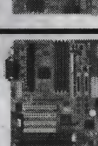
Intel 440BX Chipset, 100MHz Bus Speed, 5-PCI, 2-ISA, 1-AGP Slots, 4-168 pin Memory Slots, Award PnP BIOS, 2-USB Ports, Build-in Ultra IDE and I/O Controller, ATX Form Factor

ASUS

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Intel® Celeron™ 433MHz $265
Intel® Celeron™ 466MHz $305
Pentium® II 400MHz $315
Pentium® III 450MHz $405
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ASUS P2B-SCSI, ATX $319

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TYAN

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Pentium® III 500MHz $959
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Pentium® II Xeon™ 400 ..... $1325
Pentium® II Xeon™ 450 ..... $1525

TYAN THUNDER-X DLU, GX $535

If you do not see a product you are looking for CALL !

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During our more than twelve years in business, we have seen many competitors come and go. MegaHaus is a secure and honest company that will be here to serve you for many years to come.

✔ Extensive Selection

Because we specialize in computer storage, our focus is on supplying the best the market has to offer. This focus enables us to have a huge selection of drives and accessories - if it's a storage product, we probably have it.

✔ Same Day Shipping

Our multi-million dollar inventory offers you the best diversity and availability in the market. We ship most of our orders the same day. And we ship via Federal Express for prompt delivery of undamaged orders.

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✔ Extensive Technical Information

Check out our website at www.megahaus.com. And be sure to bookmark this site, we are very busy at developing our technical information section. We are putting together perhaps the most vast collection of data available on computer storage products on the web - just one more reason why we are *The Drive Authority*.

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In today's market we know that customer satisfaction is a priority. We strive for excellence in satisfying our customers from beginning to end. Thanks to this philosophy, our percentage of business from referrals is very high. We appreciate your business! If for some reason you are unsatisfied, we offer a 30 day exchange policy on all products listed in our ad.

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This Month's Feature Best Buy Deals

Quantum

Our #1 IDE Hard Drive

Quantum FIREBALL

Quantum's new Fireball ATA-66 hard drives offer great performance with a large 512k buffer, and fast spindle speeds. These drives also feature the new Shock Protection System (SPS) that protects the drive heads in case of shock.

5,400RPM			7,200RPM		
4.3 GB	CR304300A	$109	6.4GB	KA306400A	$155
8.4GB	CR308400A	$139	9.1GB	KA309100A	$170
13.0GB	CX313000A	$170	13.6GB	KA313600A	$250
20.5GB	CX320500A	$248	18.2GB	KA318200A	$320

SCSI Data Trasfer Now 160MB/sec!

Quantum ATLAS

Quantum raises the bar again with the release of the new blistering fast Atlas IV Ultra/160m interface drives with data transfer rates up to 160MB/sec, seek times as low as 5ms, and huge 2MB buffer.

7,200RPM			10,000RPM		
9.1GB	KN309100LW	$365	9.1GB	TN309100LW	$500
18.2GB	KN318200LW	$695	18.2GB	TN318200LW	$879
36.4GB	KN336400LW	$1329	36.4GB	TN336400LW	$1599

IBM Big Buffer Drives -For Big Data Jobs

IBM Offers big horsepower drives for demanding applications.

	2MB Buffer	4MB Buffer
9.1GB	n/a	$525
18.2GB	$995	$879
36.4GB	n/a	$1255
46.4GB	$1639	n/a

ORB 2.2GB Removable Cartridge Drive

IDE Internal	(ORBIDE)	$175
Parallel External	(ORBPP)	$189
SCSI Internal	(ORBSCSI)	$189
SCSI External	(ORBSCSIX)	$189
Extra Disks	(ORBDISK)	$29

CD Recorder Sale!

IDE Internal Rewritables		
MItsumi	4x2x8	$195
JVC	2x2x24	$209
HP	4x2x24	$269
Ricoh	4x4x20	$235
HP	4x4x24	$299
SCSI Internal Rewritables		
Plextor	4x2x20	$289
Yamaha	4x4x16	$229
Ricoh	4x4x20	$275
Plextor	8x2x20	$Call
Sanyo	8x2x20	$389

We have the best deals in the industry on CD media. Check out our high volume pricing. If you need larger quantities, call us with your needs.

Seagate Ultra/2 SCSI Hard Drives with 4MB Cache!

9 Gig	$374	7200rpm (ST39175LW4)		$499	10,000rpm (ST39103LW4)
18 Gig	$663	7200rpm (ST318275LW4)		$803	10,000rpm (ST318203LW4)
36 Gig	$Call	7200rpm		$Call	10,000rpm

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ULTRA ATA-66 HARD DRIVES

Ultra ATA-66 hard drives are capable of data transfer rates up to 66Mbytes/sec. They have a 40 pin data connector. They will work on IDE, EIDE, Ultra ATA, or Ultra ATA-66 controllers at the controller's maximum speed. Kit includes a PCI Ultra-ATA controller, and data cable.

WESTERN DIGITAL

					Int	Kit
4.3GB	5400rpm	512K	WDAC14300	3yr	$120	$185
6.4GB	5400rpm	512K	WDAC26400	3yr	$135	$200
8.4GB	5400rpm	512K	WDAC28400	3yr	$139	$204
9.1GB	7200rpm	2MB	WDAC29100	3yr	$205	$270
10.2GB	5400rpm	512K	WDAC310200	3yr	$169	$234
13.0GB	5400rpm	512K	WDAC313000	3yr	$195	$260
18.0GB	7200rpm	2MB	WDAC418000	3yr	$305	$370
20.4GB	5400rpm	2MB	WDAC420400	3yr	$295	$360

IBM

					Int	Kit
9.1GB	7200rpm	2MB	IBM9GXP	3yr	$215	$280
13.5GB	7200rpm	2MB	IBM13GXP	3yr	$245	$310
15.0GB	5400rpm	2MB	IBM15GP	3yr	$229	$295
18.0GB	7200rpm	2MB	IBM18GXP	3yr	$320	$385
20.3GB	5400rpm	2MB	IBM20GP	3yr	$309	$374
22.0GB	7200rpm	2MB	IBM22GXP	3yr	$359	$424
25.0GB	5400rpm	2MB	IBM25GP	3yr	$359	$424

Quantum

					Int	Kit
4.3GB	5400rpm	512K	CR304300A	3yr	$109	$174
6.4GB	5400rpm	512K	CR306400A	3yr	$133	$198
6.4GB	7200rpm	512K	KA306400A	3yr	$155	$220
8.4GB	5400rpm	512K	CR308400A	3yr	$139	$204
9.1GB	7200rpm	512K	KA309100A	3yr	$170	$235
10.2GB	5400rpm	512K	CX310200A	3yr	$159	$224
13.0GB	5400rpm	512K	CX313000A	3yr	$170	$235
13.6GB	7200rpm	512K	KA313600A	3yr	$250	$315
18.2GB	7200rpm	512K	KA318200A	3yr	$320	$385
20.5GB	5400rpm	512K	CX320500A	3yr	$248	$313

Seagate

					Int	Kit
4.3GB	5400rpm	512K	ST34312A	3yr	$110	$165
8.4GB	5400rpm	512K	ST38422A	3yr	$128	$183
10.2GB	5400rpm	512K	ST310232A	3yr	$160	$215
13GB	5400rpm	512K	ST313032A	3yr	$190	$245
17GB	5400rpm	512K	ST317242A	3yr	$203	$258

Maxtor

					Int	Kit
6.5GB	5400rpm	2MB	M92720D	3yr	$New!	$Call
8.4GB	5400rpm	2MB	M90845D	3yr	$New!	$Call
10.2GB	5400rpm	2MB	M91020D	3yr	$New!	$Call
13.6GB	5400rpm	2MB	M91360D	3yr	$New!	$Call
20.4GB	5400rpm	2MB	M92040D	3yr	$New!	$Call
27GB	5400rpm	2MB	M92720D	3yr	$479	$Call

Ultra ATA-66 Accessories

ATA-66 2 drive 80 conductor cable	[CABLEAT66]	$9
ATA-66 PCI controller card	[ULTRA66]	$69

ULTRA ATA HARD DRIVES

Ultra ATA hard drives are cabable of data transfer rates up to 33Mbytes/sec. They have a 40 pin data connector. They will work on IDE, EIDE, or Ultra ATA controllers at the controller's maximum speed. Kit includes a PCI Ultra-ATA controller, and data cable.

Maxtor

					Int	Kit
4.3GB	5400rpm	512K	M90432D	3yr	$114	$169
8.4GB	5400rpm	512K	M90845D	3yr	$125	$180
10.0GB	7200rpm	512K	M91024D	3yr	$195	$250
13.0GB	5400rpm	512K	M91303D	3yr	$190	$245
17.2GB	5400rpm	512K	M91728D	3yr	$235	$290
20.4GB	7200rpm	512K	M92048D	3yr	$330	$385

IBM

					Int	Kit
10.1GB	5400rpm	512K	IBM10GP	3yr	$165	$220
10.1GB	7200rpm	512K	IBM10GXP	3yr	$205	$260
14.4GB	7200rpm	512K	IBM14GXP	3yr	$259	$314

Ultra ATA Accessories

Cable Select Cable, no more changing Master/Slave switches!	[GSICSEL]	$12
Parallel Port External Case	[PPCASEHD]	$89
GSI External Hot Port IDE Case, true IDE transfer rates	[HOTPORT]	$129

MAKE IT REMOVABLE!

Turn a 3.5" drive into a removable AND keep it COOL!

Mount a 3.5" drive in the supplied cartridge, and the frame in a 5.25" bay and you're ready. Features high quality aluminum frame, gold plated connectors, cooling fan, current protection, and key lock to prevent unwanted removal. Perfect for using many different drives in one drive bay, or the same drive in many computers!



DataPort V Series	Complete Kit	Cartridge	Frame
IDE	$99 [DP2200AM]	$59 [DPACARTM]	$49 [DPAFRAME]
SCSI	$85 [DP2200S]	$40 [DPSCART]	$54 [DPSFRAME]
Ultra Wide SCSI	$139 [DP2200UW]	$69 [DPUWCART]	$80 [DPUWFRAME]

Complete Kit includes 1 frame, 1 cartridge, mounting screws, & 2 keys.

Also available in black. See page 4 of this ad for more details. Or check out the full line on our website. These removable solutions are the best we have ever seen.

ULTRA/2 SCSI HARD DRIVES

Ultra-2 hard drives are capable of data transfer rates up to 80Mbytes/sec. Features a 68 pin data connector. They will work on Wide, Ultra Wide, or Ultra-2 controllers at the controller's maximum speed. External Drives include terminator.

Seagate

					Int	Ext
4.5GB	7200rpm	1MB	ST34573LW	5yr	$315	$445
9.1GB	7200rpm	1MB	ST39175LW	5yr	$379	$509
9.1GB	10,000rpm	1MB	ST39103LW	5yr	$519	$649
18.2GB	7200rpm	1MB	ST318275LW	5yr	$709	$839
18.2GB	10,000rpm	1MB	ST318203LW	5yr	$839	$999
36.4GB	7200rpm	1MB	ST136475LW	5yr	$1399	$1529
36.4GB	10,000rpm	1MB	ST136403LW	5yr	$2319	$2449
50.1GB	7200rpm	1MB	ST150176LW	5yr	$2559	$2689

IBM

					Int	Ext
9.1GB	7200rpm	512K	IBM39130U2	5yr	$329	$459
9.1GB	10,200rpm	4MB	IDRVS9UZ4	5yr	$529	$659
18.2GB	7200rpm	2MB	IBM318350U2	5yr	$719	$849
18.2GB	10,000rpm	2MB	IDMVS18U2	5yr	$999	$1029
18.2GB	10,200rpm	4MB	IDVRS18ZX	5yr	$879	$1009
36.4GB	10,000rpm	2MB	IDMVS36U2	5yr	$1645	$1775
36.4GB	7200rpm	4MB	IDRHS36U2	5yr	$1259	$1389

Ultra-2 Accessories

Adaptec PCI Ultra-2 controller	[A2930U2W]	$189
Adaptec PCI Ultra-2 controller	[A2930U2WKIT]	$329
DPT PCI Ultra-2 RAID controller	[PM2554U2]	$409
External active terminator	[ULTRA2TERMA]	$45
3' External Ultra-2 to Ultra-2 cable	[U2TOU2-3]	$45

ULTRA WIDE SCSI HARD DRIVES

Ultra Wide SCSI hard drives are capable of data transfer rates up to 40Mbytes/sec. They have a 68 pin data connector and they will work on Wide SCSI or Ultra Wide SCSI controllers at the controller's maximum speed. External Drives include terminator.

Seagate

					Int	Ext
4.5GB	7200rpm	512K	ST34520W	3yr	$215	$335
4.5GB	7200rpm	512K	ST34573W	5yr	$325	$445
9.1GB	7200rpm	512K	ST39140W	3yr	$329	$449
9.1GB	7200rpm	512K	ST39173W	5yr	$385	$505
18.2GB	7200rpm	512K	ST918273W	5yr	$699	$819

IBM

					Int	Ext
4.5GB	7200rpm	512K	IBM34560W	5yr	$205	$325
9.1GB	7200rpm	512K	IBM39130W	5yr	$339	$459
18.3GB	7200rpm	2MB	IBM318350W	5yr	$729	$849

Ultra Wide SCSI Accessories

Adaptec PCI Ultra Wide controller	[A2940UW]	$199
Advansys PCI Ultra Wide controller	[ABP940UW]	$139
3' External Ultra Wide to Ultra Wide cable	[SC3TOSC3-3]	$40

2.5" LAPTOP DRIVES

TOSHIBA

3.2GB	4200rpm	8.45mm	Ultra ATA	MK3212MAT	3yr	$149
4.3GB	4200rpm	8.45mm	Ultra ATA	MK4309MAT	3yr	$159
6.4GB	4200rpm	8.45mm	Ultra ATA	MK6412MAT	3yr	$229
10.0GB	4200rpm	12.5mm	Ultra ATA	MK1101GAV	3yr	$399

IBM

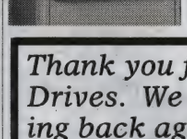
3.2GB	4200rpm	9.5mm	Ultra ATA	DB203240	2yr	$169
4.8GB	4200rpm	9.5mm	Ultra ATA	DB204860	2yr	$189
6.4GB	4200rpm	9.5mm	Ultra ATA	DB206480	2yr	$259
8.1GB	4200rpm	12.5mm	Ultra ATA	DB208100	2yr	$389
10.0GB	4200rpm	12.5mm	Ultra ATA	DB210000	2yr	$399
14.1GB	4900rpm	17mm	Ultra ATA	DB214000	2yr	$589

2.5" Accessories

Diskmanager Software for larger dirves on older systems	[DISKMANAGER]	$15
Parallel case for 2.5" drives	[PPCASE2.5]	$89
PCMCIA case for 2.5" drives	[PCMCIA2.5]	$169
2.5" TO 3.5" adapter kit	[IDEKIT-2.5]	$22
2.5" drive caddies for IBM, Toshiba, NEC, Compaq and others		$69
Adapter converts sub 19mm drives to 19mm mounting holes	[CONV2.5+CAB]	$49

KEEP IT COOL!

Prolong the life of your hard drive by keeping it COOL!



Mounts in a 5.25" bay. Features dual cooling fans and heat activated circuitry to increase fan speed as the drive gets warmer. A necessity for 7200 & 10,000rpm drives.

[VHDFAN] $30

ULTRA/160M SCSI HARD DRIVES

Ultra/160m hard drives are capable of data transfer up to 160Mbytes/sec. They have a 68 pin data connector. They will work on Wide, Ultra Wide, or Ultra-2 controllers at the controller's maximum speed.

Quantum

					Int	Ext
9.1GB	7200rpm	2MB	KN309100LW	5yr	$365	call
9.1GB	10,000rpm	2MB	TN309100LW	5yr	$500	call
18.2GB	7200rpm	2MB	KN318200LW	5yr	$695	call
18.2GB	10,000rpm	2MB	TN318200LW	5yr	$879	call
36.4GB	7200rpm	2MB	KN336400LW	5yr	$1329	call
36.4GB	10,000rpm	2MB	TN336400LW	5yr	$1599	call

Ultra/160m Accesories

At press time no Ultra/160 controllers were available. Please call or visit our web site for up to date news. These drives will work fine on Ultra Wide, or Ultra 2 controllers. When the 160/m cards become available you can upgrade your controller at that time and increase your data transfer rate.

ULTRA SCSI HARD DRIVES

Ultra Wide SCSI hard drives are capable of data transfer rates up to 40Mbytes/sec. They have a 68 pin data connector and they will work on Wide SCSI or Ultra Wide SCSI controllers at the controller's maximum speed. External Drives include terminator.

Seagate

					Int	Ext
4.5GB	7200rpm	512K	ST34520N	3yr	$215	$275
4.5GB	7200rpm	512K	ST34573N	5yr	$325	$385
9.1GB	7200rpm	512K	ST39140N	3yr	$329	$389
9.1GB	7200rpm	512K	ST39173N	5yr	$399	$459
18.2GB	7200rpm	512K	ST118273N	5yr	$689	$749

IBM

					Int	Ext
4.5GB	5400rpm	512K	IBM34560N	5yr	$215	$275
9.1GB	7200rpm	512K	IBM39130N	5yr	$349	$399
18.2GB	7200rpm	2MB	IBM318350N	5yr	$739	$799

Ultra Wide SCSI Accessories

Adaptec PCI Ultra controller	[A2940U]	$155
Budget removable drive bracket	[TRANSSCSI]	$59
3' External Ultra Wide to Ultra Wide cable	[DP2200S]	$85

SCA & ULTRA-2 SCA HARD DRIVES

SCA hard drives are capable of data transfer up to 40Mbytes/sec (80 Mbytes/sec for Ultra-2). They have an 80 pin connector that contains data signals and power.

Seagate

9.1GB	7200rpm	1024K	ST39175LC	5yr	$389	
9.1GB	10,000rpm	1024K	ST39103LC	5yr	$529	
18.2GB	7200rpm	1024K	ST318275LC	5yr	$719	
18.2GB	10,000rpm	1024K	ST318203LC	5yr	$849	
36.4GB	7200rpm	1024K	ST136475LC	5yr	$1399	
36.4GB	10,000rpm	1024K	ST136403LC	5yr	$2329	
50.1GB	7200rpm	1024K	ST150176LC	5yr	$2569	

Quantum

9.1GB	7200rpm	2MB	KN309100SCA	5yr	$385	
9.1GB	10,000rpm	2MB	TN309100SCA	5yr	$520	
18.2GB	7200rpm	2MB	KN318200SCA	5yr	$715	
18.2GB	10,000rpm	2MB	TN318200SCA	5yr	$899	
36.4GB	7200rpm	2MB	KN336400SCA	5yr	$1349	
36.4GB	10,000rpm	2MB	TN336400SCA	5yr	$1619	

FIBRE CHANNEL

FC-AL drives offer data transfer rates of up to 100 Mbytes per second over distances up to 10 kilometers.

Seagate

9.1GB	7200rpm	1024K	ST39175FC	5yr	$389	
9.1GB	10,000rpm	1024K	ST39103FC	5yr	$529	
18.2GB	7200rpm	1024K	ST318275FC	5yr	$719	
18.2GB	10,000rpm	1024K	ST318203FC	5yr	$849	
36.4GB	7200rpm	1024K	ST136475FC	5yr	$1399	
36.4GB	10,000rpm	1024K	ST136403FC	5yr	$2329	
50.1GB	7200rpm	1024K	ST150176FC	5yr	$2569	

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IDE CD REWRITABLE

• Mitsumi 4x2x8 ReWritable •
Packet write, 2MB buffer, tray loading.
Int with software, 1 RW disk [CRMC4802EK] $195
HotPort external [CRMC4802EHP] $325

• JVC 2x2x24 ReWritable •
Packet write, 2MB buffer, tray loading.
Int with software, 1 RW disk [XRW2080K] $209
HotPort external [XRW2080HP] $339

• Hewlett Packard 4x2x24 Rewritable •
CD-Writer Plus 8100, Writes to CDR (write once) or CDRW (rewritable) media. Supports packet write, 1 MB buffer, tray loading.
IDE internal with software, 1 disk [C4392A] $269
HotPort external [C4392HP] $399

• Ricoh 4x4x20 ReWritable •
Writes to CDR (write once) at 4x or CDRW (rewritable) media at 4x. Supports packet write, 2MB buffer, tray loading.
IDE internal [MP7040A] $235
IDE internal with software & 1 disk [MP7040AK] $275
HotPort external [MP7040AHP] $405

• Hewlett Packard 4x4x24 ReWritable •
CD-Writer Plus 8200, Writes to CDR (write once) or CDRW (rewritable) media. Supports packet write, 1 MB buffer, tray loading.
IDE internal with software & 1 disk [C4414A] $299
HotPort external [C4414HP] $429

SCSI CD RECORDERS

• Teac 4x24 •
Packet write, 1MB buffer, tray loading.
Bare internal [CDR56S] /external [CDR56SX] $229/$319
SCSI internal w/controller, software & 1 disk [CDR55SK] $299

• Plextor 4x12 •
Packet write, 1MB buffer, caddy load w/tray/caddy adapter.
Bare internal [PXWRITER] /external [PXWRITERX] $299/$389
SCSI internal w/controller, software & 1 disk [PXWRITERK] $379

• Sanyo 8x20 •
Packet write, 2MB buffer, tray load w/software & 5 disks.
SCSI internal [CDR8X20S] /external [CDR8X20SX] $339/$429

• Teac 6x24 •
Packet write, 4MB buffer, tray load w/software & 1 disk.
Internal [CDR56S/6P] /external [CDR56S/6X] $339/$429
SCSI internal w/controller, software & 1 disk [CDR56S/6PK] $399

• Teac 8x24 •
Packet write, 4MB buffer, tray load w/software & 1 disk.
Internal complete kit [CDR8X24TK] $419
External our case [CDR8X24TX] *BEST BUY!!!* $499

SCSI CD REWRITABLE

• Plextor 4x2x20 •
Packet write, 2MB buffer, tray loading.
SCSI internal [PXW4220B] /external [PXW4220XB] $289/$379
Internal w/software & 1 disk [PXW4220I] $329
Plextor retail internal w/software & 1 disk [PXW4220R] $389

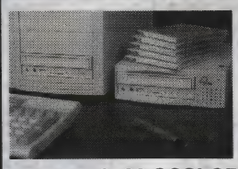
• Yamaha 4x4x16 ReWritable •
Packet write, 2MB buffer, tray loading.
SCSI internal [YCRW4416S] /external [YCRW4416SX] $229/$319
Internal w/software & 1RW disk [YCRW4416WOW] $289

• Ricoh 4x4x20 ReWritable •
Packet write, 2MB buffer, tray loading.
SCSI internal [MP7040S] /external [MP7040SX] $275/$365
SCSI internal with software & 1 disk [MP7040SK] $315

• Plextor 8x2x20 ReWritable •
Packet write, 4MB buffer, tray loading.
SCSI internal [PXW8220R] *HOT NEW DRIVE!* $Call

• Sanyo 8x2x20 ReWritable •
Packet write, 2MB buffer, tray loading.
SCSI internal [CDR8X2X20S] *HOT NEW DRIVE!* $389

THE BEST BUY IN CD RECORDERS



- *5 Free disks with each drive!*
- *Toll Free technical support!*
- *High quality name brand drives!*
- *Includes Mastering software compatible with Windows 95, 98, and NT. Call for Mac kits.*

Best Buy!

• 8x20 SCSI CD ROM Recorder •
▲ 8x Record, 20x Read
▲ 2MB buffer, tray loading

Drive Kit	$339	$439
Complete Kit with ISA controller	$389	$489
Complete Kit with PCI controller	$439	$539

HOT DEAL ON CD MEDIA!
50 disk spindle of 6x CD-R media
$55 or only $49 (with any CD-R or CD-RW drive)

• 4x4x20 IDE CD ReWritable •
▲ 4x4 Record, 4x ReWrite, 20x Read, Ricoh mechanism
▲ Packet write compatible, 2MB cache.
▲ Tray loading, includes 5 rewritable disks.

Drive Kit	$259	n/a
Complete Kit with ISA controller	$289	$379
Complete Kit with PCI controller	$319	n/a

• 4x4x16 SCSI CD ReWritable •
▲ 4x Record, 4x ReWrite, 16x Read, Yamaha mechanism
▲ Packet write compatible, 2MB cache.
▲ Tray loading, includes 5 rewritable disks.

Drive Kit	$279	$369
Complete Kit with ISA controller	$329	$429
Complete Kit with PCI controller	$359	$459

• 4x4x20 SCSI CD ReWritable •
▲ 4x Record, 4x ReWrite, 20x Read, Ricoh mechanism
▲ Packet write compatible, 2MB cache.
▲ Tray loading, includes 5 rewritable disks.

Drive Kit	$299	$389
Complete Kit with ISA controller	$349	$449
Complete Kit with PCI controller	$379	$479

• 8x2x20 SCSI CD ReWritable •
▲ 4x Record, 4x ReWrite, 20x Read, Sanyo mechanism
▲ Packet write compatible, 2MB cache.
▲ Tray loading, includes 5 rewritable disks.

Drive Kit	$419	$519
Complete Kit with ISA controller	$469	$569
Complete Kit with PCI controller	$499	$599

Drive Kit - Includes drive, Mastering software for Win 95, 98 & NT, & 5 free disks (requires controller)

Complete Kit - Includes drive, ISA or PCI controller, Mastering software for Win 95, 98 & NT & 5 free disks.

• CD MASTERING SOFTWARE •
Adaptec Easy-CD Creator Bundle $50 Retail $90
Super easy to use. Supports Windows 95, 98 and Windows NT 3.51, & 4.x.
Apple Toast CD-ROM Pro Bundle $59 Retail $89
The #1 mastering software for Macintosh. Supports Mac OS7 and later on Macintosh or compatible.
Creative Digital Research HyCD for UNIX Retail version $1049
HyCD Publisher works on SunOS , Solaris, and IRIX. It is used to develop Hybrid CD-ROMs integrating PC (ISO 9660 & Joliet), Macintosh (HFS), and UNIX (Rock Ridge) formats on a single CD-ROM.
Note: Bundle versions may only be sold with a CD-R or CD-RW drive.

• CD LABELER •

Complete CD labeling system. Includes Software with over 1200 predesigned backgrounds & clip art, 100 labels, label applicator, and 20 sets of jewel case inserts. Easy to use. With the included stand-alone software, making professional looking labels is easy. CD Stomper Pro software works with Win 3.1, 95, NT, & Mac.
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• Fast 4X duplication speed, built in CD reader. LCD panel w/controls. • Built in hard drive allows you to save often used disk images. • Duplicate almost any type of disk. If the CD-ROM can read it, you can duplicate it. • Operating system independent. • Connect to PC or Mac to produce master CD's • Direct write from CD-ROM to CD-R • Copy source from CD to HDD once, then make 1-99 duplicates on the CD-R • Create custom audio CD's from multiple audio CD titles.
CDEZDUPE $1149

YAMAHA CD-RW SALE

Writes to CD-R at 4X, and Reads at 16X.
2 MB data buffer for more reliable performance.
Tray loading for easy use. Packet write compatible. Price includes mastering software and 1 CD-RW disk.

Internal SCSI	External SCSI
$289 [YCRW4416WOW]	$309 [YCRW4416XP]
Internal SCSI with PCI controller	**Internal IDE**
$339 [YCRW4416PDW]	$259 [YCRW4416EK]

IDE CD-RW Sale

4x4x24
Ricoh - Writes to CD-Rat at 4X, and reads at 8X. 2 MB data buffer for more reliable performance. Tray loading for easy use. Packet write compatible. Price includes software and 5 CD-RW disks.
IDE $269 [SS84X4X20IN]

4x2x8
Mitsumi - Writes to CD-Rat at 5X, CD-RW at @X, and reads at 8X. 2MB data buffer for more reliable performance. Tray loading for easy use. Packet write compatible. Price includes software & 1 CD-RW disk.
IDE $195 [CRMC4802EK]

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CD Media Type	5 Pack	20 Pack	50 Pack	100 Pack
4X CD Recordable Media	$19/$17 [CDR74B-5]	$36/$33 [CDR74B-20]	$74/$70 [CDR74B-50]	$139/$129 [CDR74B-100]
8X CD Recordable Media	$21/$19 [CDR74-5]	$42/$39 [CDR74-20]	$93/$89 [CDR74-50]	$159/$149 [CDR74-100]
2X CD ReWritable Media	$33/$29 [CDR74WB-5]	$109/$105 [CDR74WB-20]	$249/$239 [CDR74WB-50]	$449/$439 [CDR74WB-100]
4X CD ReWritable Media	$59/$55 [CDR74W-5]	$149/$145 [CDR74W-20]	$359/$349 [CDR74W-50]	$689/$679 [CDR74W-100]
4X CD Recordable Printable Media	$24/$21 [CDR74PB-5]	$55/$52 [CDR74PB-20]	$109/$99 [CDR74PB-50]	$179/$169 [CDR74PB-100]
8X CD Recordable Printable Media	$27/$24 [CDR74P-5]	$65/$62 [CDR74P-20]	$139/$135 [CDR74P-50]	$239/$229 [CDR74P-100]
8X CD Recordable Platinum Media	$23/$21 [CDR74PA-5]	$45/$42 [CDR74PA-20]	$102/$97 [CDR74PA-50]	$169/$159 [CDR74PA-100]

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DVD DRIVES

COMPLETE KITS

Samsung 6X Drive kit [SAMDVD6]	$229/$319
Smart Storage Solutions 6X Drive kit [SSSDVD3KIT]	$219
Creative Labs Encore 6X DVD Drive kit [CLDVD6KIT]	$229

Bare	Interface	CD Speed	DVD Speed	Model #	
Samsung	IDE	32X/85ms	6X,110ms	SAMDVD6	$119
Toshiba	IDE	32X/85ms	6X,110ms	SDM1212	$149
Toshiba	SCSI	32X/85ms	5X,110ms	SDM1201	$145
Pioneer	IDE	32X/90ms	4.8X,120ms	DVD103	$125
Pioneer	SCSI	32X/90ms	4.8X,120ms	DVD303	$159

Hollywood MPEG-2 Decoder [HOLLYWOOD] $99
Waveless wireless transmitter allows you to transmit DVD movies from computer to TV [PCTOTV] $169

DVD RAM

TOSHIBA
SCSI DVD RAM drive, supports most formats #SDW1101 $439
PANASONIC
SCSI DVD RAM drive, supports most formats #LFD101U $549
DVD RAM Media
5.2 GB media #DVDRAMDISK 1-4/5-9/10+ $40/$37/$35
Call or visit megahaus.com/dvdram for more details.

CD ROM READERS

• SCSI DRIVES •

Brand	Model	Max Spin	Speed	Internal	External
NEC	CDR1910	32X	85ms	$82	$172
Teac	CD532S	32X	85ms	$92	$182
Plextor	PX32TS (tray)	32X	85ms	$109	$199
Plextor	PX32CS (caddy)	32X	85ms	$149	$239
Toshiba	XM6401B	40X	79ms	$95	$185
Plextor	PX40TS	40X	85ms	$139	$229

• WIDE SCSI DRIVES •

Plextor	PX40TSUW	40X	85ms	$169	$279

• ATAPI DRIVES (IDE) •

Brand	Model	Max Spin	Speed	Internal	Int Kit
Teac	CD532E	32X	85ms	$60	$90
Mitsumi	CRMCFX40X	40X	85ms	$62	$92
Toshiba	XM6502B	40X	85ms	$64	$94
NEC	CDR3000	40X	75ms	$65	$95
Memorex	CD48X	48X	90ms	$69	$99
Kenwood	UCR412	52X	90ms	$119	$149
Memorex	CD56X	56X	90ms	$79	$109

Ext Case Parallel port [PPCASECD] /Ext [PCMCIACD] $89/$159
HotPort External IDE CD case [HOTPORT] $129
New Creative Labs Sound Blaster PC164 [SBPCI256] $182

CD MULTIDRIVE TOWERS

• CD ROM TOWERS •
For fast accerss to multiple CD's at one time. Perfect for schools, networks, and more. Toll free support.
40X models now available!



4 DRIVE SCSI TOWERS

40X	79ms	Toshiba	$599
40X	85ms	Plextor	$699



7 DRIVE SCSI TOWERS

40X	79ms	Toshiba	$1739
40X	85ms	Plextor	$1199

Ethernet CD Towers - Built -in 10 baseT or 100 baseT Ethernet connection. Hooks directly to your network. Designed for mixed LAN environment - can be used simultaneously from Windows 95, NT, OS/2, DOS, and UNIX platforms using Novell Netware, Microsoft Networks, and NFS.

Speed	Brand	Access	7 Drive	Item #	13 Drive	Item #
40X	Toshiba	79ms	$1599	#SSS6401X7N	$2799	#SSS6401X13P
40X	Plextor	85ms	$1959	#SSSPX40X7N	$3459	#SSSPX40X13N

100 baseT models add $240 to 7 drive model, and $100 to 13 drive model.

New! Auto Switching Ethernet CD Towers - auto switches between 10 baseT or 100 base T Ethernet connection. Hooks directly to your network. Designed for mixed LAN environment - can be used sumultaneously from Win 95, NT, Win for Workgroups, OS/2, HTTP, Mac, and UNIX. 32 drive speed, 8 drive tower. Item #SSS40X8N $1599

Need a multidrive tower built to custom configurations? Not a problem. Call our professional sales team and let us build your tower for you. At MegaHaus, we have been making customers very happy for well over 12 years. Call us and you'll see why Shopper readers have voted us to our second year as the "Best Place to Buy Storage".

TAPE BACKUP

• SEAGATE 8GB TR4 •
4GB native and 8 GB compressed capacity. Backup rate up to 60MB/min. Includes DOS/Win backup software, tapes [TR4] $26
Internal IDE, with 1 tape [STT2800A] $195
Internal SCSI, with 1 tape [STT2800N] $219
External SCSI, with 1 tape [STT2800NX] $299

• HEWLETT PACKARD 10GB TR5 •
Includes backup software for Dos & Win. TR5 tapes $44
SCSI Internal TR5 [C4394A] $419
SCSI External TR5 [C4394AX] $509

• SEAGATE 10GB TR5 •
Includes backup software, TR5 tapes. $44
SCSI: Bare [STT2200BARE] $439 NT/Netware software [STT2200N] $529
IDE Internal: Dos/Win software [STT22000A] $405

SCSI TAPE DRIVES

• 4MM DAT DRIVES •

Cap. (Native/Comp.)		Max Speed	Brand & Model	
2GB	4GB	66MB/min	Seagate STD2400N	$559
4GB	8GB	66MB/min	Seagate DDS-2 STD28000N	$629
4GB	8GB	90MB/min	Sony SDT7000AI	$559
4GB	8GB	60MB/min	HP C1599AI	$679
6GB	n/a	52MB/min	Indigita IDT2500 (free software)	$479
12GB	24GB	144MB/min	Sony DDS-3 SDT9000AI	$759
12GB	24GB	132MB/min	Seagate SDT224000N	$859
12GB	24GB	120MB/min	HP DDS-3 C1554AI	$899
20GB	40GB	288MB/min	Sony DDS-4 SDT10000AI	$1129
48GB	96GB	48MB/min	Seagate STL496000N	$2199
12GB	96GB	90MB/min	Sony TSL9000 tape loader	$2159
72GB	144GB	120MB/min	HP C5648A 6 tape loader	$2679

Media 2-4/5-9/10+120Meter (DAT120M)$16/13/11 • 125 Meter (DAT125M) $31/28/26
New! DAT150M tapes - 150 Meter Only $59/$57/$55

• EXABYTE 8MM DAT DRIVES •

7GB	14GB	120MB/min	ELIANT820	$1229
20GB	40GB	360MB/min	EXB8900	$2379
70GB	140GB	60MB/min	EXB10H 10 tape loader (Ext)	$2699

Media 2-4/5-9/10+160Meter (DAT160M8MM)$18/15/13

• QUANTUM DLT DRIVES •

20GB	40GB	180MB/min	DLT4000	$1859
Above as ext. our case			DLT4000X	$1959
Above as ext. Qtm case			DLT4000QX	$2069
35GB	70GB	600MB/min	DLT7000	$4575
Above as ext. our case			DLT7000X	$4675
Above as ext. Qtm case			DLT7000QX	$4779

Media 2-4/5-9/10+(DLT3) $38/37/35 • (DLT3XT) $41/40/38
(DLT4) $80/79/77 • (DLTCLEAN) $41/40/38

• AIT DRIVES •
Sony, Seagate call for price.
Compressed capacity is with maxumum compression. Speed and amount of compression depends on your application. Autoloaders may require certain options to get advertised capacity.

Call for the best prices in the industry on tape drives, tapes, controllers, and backup software. Our helpful sales staff will be glad to help you with your needs. Or check out our deals 24 hours a day at www.megahaus.com.

BACKUP SOFTWARE

Seagate Backup Exec

Windows 95 & 98 [SBEWDWD]	$69
WindowsNT Workstation [SBENTWD]	$99
Windows NT single server [SBENTSE]	$419
Windows NR multi server [SBENTME]	$879
Small Business Server Suite [SBENTSB]	$249
Netware single server & 25 users [SBENW25]	$319
Netware single server & unlimited users [SBENWSE]	$409
Netware multi server [SBENWME]	$879

Indigita
TapeTrax software allows most SCSI tape drives to be used as a standard disk drive under Win95 [TAPETRAX] $89

NovaStor
NovaWorks CD contains backup software for DOS, Win 3.1, Windows 95, Win NT, Macintosh, and OS/2 including WARP Compatable with SCSI, IDE, and QIC drives [NOVACD] $65

Novell NLM single server [NOVANWSE]	$229
Novell NLM multi server and 25 users [NOVANW25]	$339
Novell NLM multi server and unlimited users [NOVANWUNL]	$759
NT server [NOVANTSE]	$229
NT server and unlimited users [NOVANT]	$379
NT unlimited servers and unlimited users [NOVANTUNL]	$759

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External USB [ZIP100USB]	$139
Zip media [ZIP100C] 2-4/5-9/10+	$13/12/11

• IOMEGA 2GB JAZ •

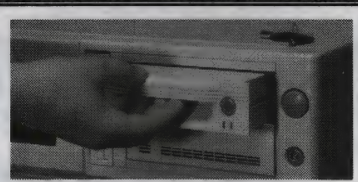
Internal SCSI [JAZ2I]	$309
External SCSI [JAZ2X]	$319
Jaz 1 GB media [JAZ1GIGPC] 2-5/5-9/10+	$77/75/73
Jaz 2 GB media [JAZ2GIGPC] 2-5/5-9/10+	$86/84/82

OPTICAL DRIVES

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3,868rpm, 19ms, 1MB buffer. Supports direct overwrite media.
Compatible with 5 1/4" 650MB, 1GB, 1.3GB, & 2.6GB disks.
SCSI Drive Internal [TS-2600] /External [TS-2600X] $1049/1139
2.6GB media (TJ2.6) 1-4/5-9/10+ $40/36/34

• MAXOPTIX 5.2 GIG •
2,942rpm, 20ms, 4MB buffer. Supports direct overwrite media.
Compatible with 5¼" 650MB, 1GB, 1.3GB, & 2.6GB disks.
SCSI Drive Internal [T6-5200] / External [T6-5200X] $1519/1619
5.2GB media (MAX5.2) 1-4/5-9/10+ $83/80/77

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High quality construction. Gold plated connections. Features built in cooling fan, SCSI ID switch. Metal frame construction. Plastic cartridge with metal top and bottom covers.

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IDE with all metal cartridge [DP2200AM]	$99	$119
SCSI [DP2200S]	$85	$105
Ultra Wide SCSI [DP2200UW]	$139	$159
EXTRA CARTRIDGE		
Plastic IDE [DPACART]	$39	$59
Metal IDE [DPACARTM]	$59	$79
SCSI [DPSCART]	$40	$60
ULTRA WIDE SCSI [DPUWCART]	$69	$89
EXTRA FRAME		
IDE [DPAFRAME]	$49	$49
SCSI [DPSFRAME]	$54	$54
ULTRA WIDE SCSI [DPUWFRAME]	$80	$80

• DATA-PORT VI REMOVABLE DRIVE BRACKETS •
Same as DataPort V, but add all metal construction and fan failure alarm.

COMPLETE KIT		
Includes 1 frame, and 1 cartridge		
SCSI [DP2200SM]	$95	$115
ULTRA WIDE SCSI [DP2200UWM]	$159	$179
SCA (uses SCA drives) [DP2200SCA]	$159	$179
EXTRA CARTRIDGE		
SCSI [DPSCARTM]	$60	$80
ULTRA WIDE SCSI [DPUWCARTM]	$89	$109
SCA (uses SCA drives) [DPSCACART]	$89	$109
EXTRA FRAME		
SCSI [DPSFRAMEAL]	$54	$54
ULTRA WIDE SCSI [DPUWFRAMEA]	$80	$80
SCA [DPSCAFRAME]	$80	$80
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24X CD Rom, 56k Modem

$1899.99

Model	Processor	Display	Ram/HD/CD/Mod	Price
THINKPAD 300's				
390	Pentium® 233	12.1 ACT	32/3.2/24X/56k	1099.99
390	Pentium® II 233	12.1 ACT	32/3.2/24X/56k	1199.99
390	Pentium® II 266	14.1 ACT	64/4.3/24X/56k	1699.99
380Z	Pentium® II 233	13.3 ACT	32/4/24X/Opt.	1499.99
380Z	Pentium® II 300	13.3 ACT	32/4/24X/Opt.	1899.99
390E	Celeron 300 MHZ	12.1 ACT	32/3.2/24X/56k	1499.99
390E	Pentium® II 300	13.3 ACT	32/3.2/24X/56k.	1699.99
390E	Pentium® II 333	14.1 ACT	64/6.4/24X/56k	CALL
THINKPAD 700's				
765D	Pentium® 166	13.3 ACT	32/3.2/8X/Opt.	1199.99
770E	Pentium® II 266	14.1 ACT	32/5.1/Opt./56k	1899.99
770ED	Pentium® II 266	14.1 ACT	64/8/DVD/56k	2299.99
770X	Pentium® II 300	14.1 ACT	64/8.1/24X/56k	2799.99
770X	Pentium® II 300	13.7 ACT	128/8.1/DVD/56k	CALL
770X	Pentium® II 300	14.1 ACT	64/8.1/DVD/56k	3299.99
770Z	Pentium® II 366	13.7 ACT	128/14/DVD/56k	CALL
770Z	Pentium® II 366	14.1 ACT	128/14/DVD/56k	CALL

i SERIES 1451

Pentium® 300 Processor
13.3" Active Color Display,
64 Mb Ram/4.3Gb HD,
24X CD Rom, 56k Modem

$1399.99



Model	Processor	Display	Ram/HD/CD/Mod	Price
1411	Pentium® 300	12.1 ACT	32/4.3/24X/56k	1199.99
1720	Pentium® II 266	13.3 ACT	64/4.3/24X/56k	1699.99
1721	Pentium® II 300	14.1 ACT	64/5.4/DVD/56k	CALL
THINKPAD 600				
THINKPAD 600's				
600	Pentium® II 266	13.3 ACT	32/4.0/24X/56k	1799.99
600	Pentium® II 300	13.3 ACT	64/5.1/24X/56k	2399.99
600	Pentium® II 366	13.3 ACT	64/6.4/24X/56k	CALL
600	Pentium® II 366	13.3 ACT	64/6.4/DVD/56k	CALL
NEW THINKPAD 570's				
570	Pentium® II 300	12.1 ACT	64/4/Opt/56k	2199.99
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Model	Processor	Display	Ram/HD/CD/Mod	Price
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C360	Pentium® II 333	13.3 ACT	64/4.3/24X/56k	1699.99
E335	Pentium® II 233	13.3 ACT	32/3.2/24X/56k	1399.99
E340	Pentium® II 266	13.3 ACT	32/4/24X/56k	1499.99
E342	Celeron 300MHZ	12.1 ACT	32/3.2/24X/56k	1299.99
E350	Pentium® II 300	13.3 ACT	32/5/24X/56k	1699.99
E351	Pentium® II 300	13.3 ACT	64/4.3/24X/56k	1899.99
E360	Pentium® II 333	13.3 ACT	64/6.4/24X/56k	2199.99
E370	Pentium® II 366	13.3 ACT	64/6.4/24X/56k	CALL
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Model	Processor	Display	Ram/HD/CD/Mod	Price
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502T	Pentium® 266	12.1 ACT	32/4/20X/56k	1199.99
711TE	Pentium® II 266	13.3 ACT	64/4.1/24X/56k	1499.99
712TE	Pentium® II 300	13.3 ACT	64/6/24X/56k	1699.99
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TRAVELMATE 330T

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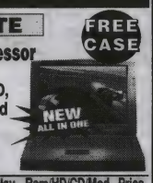
Model	Processor	Display	Ram/HD/CD/Mod	Price
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332T	Pentium® II 366	12.1 ACT	64/6.4/24X/56k	CALL
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NEC

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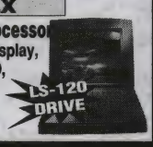


Model	Processor	Display	Ram/HD/CD/Mod	Price
VERSA SERIES				
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VersaLX	Pentium® II 300	14.1 ACT	64/6.0/DVD/56k	2199.99
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VersaSX	Pentium® II 300	14.1 ACT	64/4.0/24X/Opt.	2199.99
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Note	Pentium® II 266	13.3 ACT	64/4.0/24X/56k	1499.99
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VERSA LX				

VERSA LX

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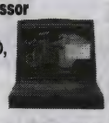
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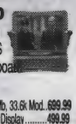
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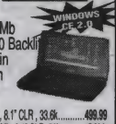
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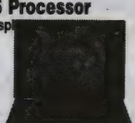


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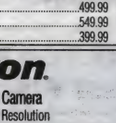
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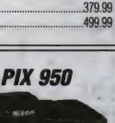
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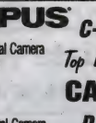
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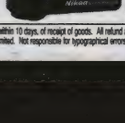
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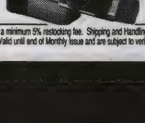
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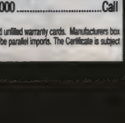
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CG26P3 6 outlets, plastic, 6' cord **4.95**
EPS10P 6 outlets, plastic, 10' cord **5.95**

- Metal, 1 MOV, Built–in circuit breaker.

CG26M 6 outlets, metal, 6' Cord **5.95**

- Modem/phone jack, 3 x2 outlet, metal EMI/RFI, 3MOV line protection

CG26D 6' Power Cord **7.95**
EPS23C 10' Power Cord **9.95**

POWERFUL UPS SYSTEM
- Protects against surges, spikes and blackouts.
- Built–in interface for Novell, Unix, and WIn95/98/NT.
- Intelligent & easy to operate.
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PUP0425U 425VA, 110V **99.95**
PUP1400U 1400VA, 110V **349.00**
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PUP800U 800VA, 110V **159.00**

POWER CORD EXTENSION
- 6' 3–prong HP Male plug & Female socket

CO06EX 6' **1.49**

POWER CORD
- Connect wall outlet to computer or monitor

CO06SUL 6' **1.29**

- Connect computer to monitor power cord

CO01MO 1' **1.19**
CO06MO 6' **1.49**

FLOPPY ITEMS

HIGH DENSITY FDD
- 1.44 MB FDD; Easy integration

GFDM144F FDD **17.99** **14.99/10+**
UFL01 3.5"/5.25" Floppy Lock **6.99**

MOUNTING KITS
XMKHD2 Converts 2.5" HD to 3.5" HD **11.49**
MKF 3.5" Converts to 5 1/4" Floppy Drive **1.95**
MKH 3.5" Convert sto 5 1/4" Hard Drive **2.99**

TOOL KITS

PREMIUM 12 PIECE TOOL KITS
TK110 w/ Parts Tube **6.99**
TK113 w/ IC Insertion **6.99**

PROFESSIONAL TOOL KIT
- 25 piece set Includes: Phillips: #0, 1; Slotted ScrewDriver:#1, 4, 2.0, 2.4, 3.0; Socket Set: 5, 6, 8, 10mm; 10pc. bit pack; 4" nose pliers, 4" side cutter; Tweezers; Handle, Extension bar

TK500 Professional Tool Kit **14.90**

20 PIECE DELUXE TOOL KIT
- All the tools you need for your PC.

TK220 $19.95

8x8 DIE CRIMP TOOL
TK8C Die Crimp for RJ45 **10.99**

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APH8CF RJ45 Flat Plug 100pcs. **8.95**
APH8CR RJ45 Round Plug 100pcs. **11.95**

MB ASSEMBLY KIT
CFLSCW1 $1.25

PROCESSORS

PENTIUM II/III, CELERON (SLOT 1)

IPDII350	PENTIUM II 350MHZ, BOXED	$179
IPDII400	PENTIUM II 400MHZ, BOXED	$195
IP7I450B	PENTIUM III 450MHZ, BOXED	$280
IP7I500B	PENTIUM III 500MHZ, BOXED	$480
IP7I550B	PENTIUM III 550MHZ, BOXED	$700
IP7IC366E	CELERON 366MHZ, OEM	$84
IP7IC400E	CELERON 400MHZ, OEM	$105
IP7IC433E	CELERON 433MHZ, OEM	$140

SUPER SOCKET 7

IP5A2400	AMD K6-2 400MHZ, OEM	$75
IP5A2450	AMD K6-2 450MHZ, OEM	$99
IP5A3400	AMD K6-3 400MHZ, OEM	$200
IP5A3450	AMD K6-3 450MHZ, OEM	$270

INTEL SOCKET 370 (PPGA) CPU

IP7IP366B	CELERON 366MHZ, BOXED	$85
IP7IP400B	CELERON 400MHZ, BOXED	$105
IP7IP433B	CELERON 433MHZ, BOXED	$145
IP7IP466B	CELERON 466MHZ, BOXED	$175

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MONITOR ITEMS

MONITOR ARMS
- Metal platform, holds up to 66lbs or 17" monitor.
- Keyboard tray extends up to 11"

XMA06 $16.95

MONITOR ARM
- 11 1/4" x 11 1/4" platform
- 360 rotation, arm extends 14 1/2"
- Clamps to desktop
- Holds up to 55 lbs.
- Includes keyboard holder

MM02 Hold 12"-15" monitor $23.95

- Same design as MM02. **Can be mounted on the wall. More stability**. supports up to 57 lbs & adjustable KB tray angle; platform 13 3/4" x 13 3/4"

XMA05 Hold 17"-19" monitor $34.95

RGB MONITOR CABLE
HDD 15M– 5M BNC 6'
CVG15MN6N5 **15.95**

VGA or SVGA MONITOR CABLE
- Connects VGA analog monitors with VGA display
- For VGA monitor to CPU or extension
- DBH15 Male to DBH15 Male

ASSEMBLED			MOLDED	
CMV15MM-6	6'	1.99	CMMV15MM6	2.39
CMV15MM10	10'	2.49	CMMV15MM10	2.99

DBH15 Male to DBH15 Female

CMV1515MF	6'	1.99	CMMV15MF	2.39
CMV1515MF2	12'	2.69	CMMV15MF12	2.99

DB9 MONO MONITOR/RS232 MOUSE EXTENSION CABLE
- For monochrome, RGB, EGA, & Multisync monitors
- DB9 Male/Female, Male/Male, Female/Female

ASSEMBLED			MOLDED	
CM0909MF-6	6'	1.49	CMM0909MF6	1.89
CM0909MM-6	6'	1.49	CMM0909MM6	1.89
CM0909FF-6	6'	1.49	CMM0909FF6	1.99

SWITCH BOXES

IEEE PRINTER AUTO–SWITCH
- Printer Autoswitch plus Intelligent Parahub for transferring files between 2 PCs (WASAAF201)
- Software/Hot Key control
- Supports IEEE–1284 nibble mode

WASAAF201 2 to 1, or 1 to 2 **39.95**

- Connect 4 PCs to 1 printer, reversible

WASAAS401 4 to 1, or 1 to 4 **79.95**

MULTIPLE VIDEO SPLITTERS
- Show the same image on multiple monitors; supports distance up to 210' with HDB15 connector

WSPAV104 4 Monitor,1280x1024,180Mhz **74.95**
WSPAV108 8 Monitor,1280x1024,180Mhz **99.95**

ELECTRONIC CPU SWITCH BOX
- 2 PCs to 1 console, AT & PS/2

WCSAC122 **124.95**

- 4 PCs to 1 console, AT & PS/2

WCSAC104 **179.95**

- 6 PCs to 1 console, AT only

WCSAC106 **199.95**

- 8 PCs to 1 console, AT & PS/2. Use CCK1012A/P Cable
- Support Microsoft Intelligent mouse

WCSAC128 **379.95**

PARALLEL DUAL DIRECTIONAL AUTO-SWITCH
- 1 Computer to 2 or 4 printers or visa versa with manual selection

SB2502BD	AB Bi–Directional	8.99
SB2504BD	ABCD Bi–Directional	19.95

- 2 or 4 computers to a parallel peripheral

SB2502AU	2 Way Auto Switch	6.95
SB2504AU	4 Way Auto Switch	14.95
WASP811P	8 Way Auto Switch	69.95

All Switch Boxes allow one computer to share 2 or 4 output devices. or vice versa.

DB25 SWITCH BOXES
All DB-25 female connectors

SB2502	Parallel Switch, 2-way	4.95
SB2504	Parallel Switch, 4-way	7.95

HDB15 VGA SWITCH BOX
Allows one computer to share 2/4 VGA or vice versa.

SB1502	2 WAY, HD15F	7.95
SB1504	4 WAY, HD15F	9.95

VGA/KB/MICE SWITCH BOX
AB switch, HD–15F/DIN 5F/DB–9M
WSB1505092 **16.95**
ABCD switch, HD–15F/DIN 5F/DB–9M
WSB1505094 **19.95**

KEYBOARD ITEMS

All keyboards include a 6' cable with Din5 connectors unless otherwise noted

ERGONOMIC KEYBOARD w/ WRIST PAD
- 104 key ergonomic keyboard

KCC7903W with Wrist Pad **29.95**

MITSUMI™ 104 Keys
- 104 Key membrane
- Measures: 20" x 10" x 2"

KMMZW104S Din5 Port **9.95**
KMMZW104P PS/2 Port **9.95**

Economic Win98 Keyboard
- 104 keys compatible windows keyboard
- High quality rubber mechanical click key switches. 10 Million life cycles per switch
- Measure: 18.6"x7.4"x0.1"

KQ104S AT 104 key **8.95**

Big Trackball Win98 Keyboard
- 104 keys windows keyboard
- Mechanical click key switches
- Opto-mechanical large trackball and button for easy use.
- 20 to 6400 variable high resolution
- Measure: 19"x6.8"x0.13"

KQTB1 **74.95**

Mini Trackball Windows Keyboard
- 104 keys compatible windows keyboard
- Rubber mechanical click key switch
- Opto-mechanical mini trackball. 20 to 6400 variable high resolution
- Measure: 18.6"x7.4"x0.13"

KQTB2 **29.95**

UNDER CARRIAGE DRAWER
- Mouse tray can be installed on left or right of keyboard.
- Equipped with wrist rest to protect wrist
- Hold standard & MS size keyboards

XKDC55M NEW **15.49** **13.95/3+**

KEYBOARD DRAWER
- Ball bearing "easy glide" slides lock
- Holds keyboards up to 20.25" x 9.5" x 2.25"

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UNDER TABLE KEY-BOARD DRAWER
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- Smooth ball bearing glide
- Measures: 20.25"W x 9.5"D x 2.25"H

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KEYBOARD ARM w/ TRAY
- Tray designed to hold MS keyboard and mouse
- Adjustable heavy-duty keyboard holder
- Slides in and out,up and down, tilts and swivels

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PS/2 KB/MICE CABLES

PS/2 MOUSE CABLES
- Use as PS/2 mouse and keyboard extension

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CKB6MM10	10'	Din6M to Din6M	1.99
CKB6MF10	10'	Din6F to Din6F	1.99
CKB6MF25	25'	Din6M to Din6F	3.49

PS/2 MOUSE CABLE ADAPTER
- Use with any motherboard
- Assembled to fit your needs

CIJM658F 6" **1.49**

KEYBOARD EXTENSIONS
- Ideal for floor-mounted PCs
- Designed for IBM style keyboard cables

CK0506MM	6'	DIN5M–DIN5M	1.39
CK0506FM	6'	DIN5F–DIN5M	1.39
CK0512FM	12'	DIN5F–DIN5M	1.89
CK0606FM	6'	DIN6F–DIN6M, for PS/2	1.69
CKB6MM06	6'	DIN6M–DIN6M, for PS/2	1.69

KEYBOARD ADAPTER

AK0505MM	Din5M to Din5M connector 6"	.99
AK0506FM	Din5F to Din6M connector 6"	.99
AK0506MF	Din5M to Din6F connector 6"	.99

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LAN TESTER
Cross wire or straight through? This kit allows you to easily read and test cable pin configuration as well as BNC and RJ45/RJ12/RJ11 network cables. Tests cable up to 1000' w/ remote unit.

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Quickly diagnoses whether your 10base–T card or hub is causing your problem. Comes with link status, receive data, and polarity indicators. Just push and test. RJ45 connector

NTEH256651 **154.95**

MULTI–NETWORK CABLE TESTER KIT
Auto scans cables and wires. Use tester for 10Base–T cables, 10Base–2 cables, RJ45/RJ11 modular cables, and 365A, TIA–568B and Token Ring cables.

NTEH251451 **49.95**

PC CABLE TESTER
- An excellent tool for quickly testing the pin configuration or trouble shooting.
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- Generates a signal from one end and traces the cables from the other end by probe. Easy to identify

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CNWTC451ZZ Stranded **89.95**

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- T568B, RJ45 support
- Kit includes: mounting screws, double–sided adhesive pad, labels and protective label covers

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CNWSJS8 Single port **5.49**
CNWSJD8 Dual port **8.95**

CAT 5 KEYSTONE JACK
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IP7IP366B 366MHz w/ heatsink/fan $75.95

MONITOR FILTER
- Reduce glare and reflection
- Enhances sharpness/contrast

MF14G for 15", Color **4.90**
XMF17G for 17", Color **6.95**

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With ground wire and alligator clip

WRIST Anti–Static **2.90**

Small KB Anti–Static Pad
- Simply attach ground cord to metal surface. Built-in resistor
- Measures: 12" x 21.5"

VS1024 **5.90**

Large Anti–Static Pad
- Ideal for everyday use and busy computer techs
- Measures: 19 1/2" x 23"

VS1919 **6.90**

MOUSE PADS
- Anti-static rubber/10 1/4" x 8 3/4"

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OUPG	Grey	69¢	
OUPR	Red	65¢/20+	
OUH01	Pocket	79¢	

KB WRIST REST
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Creative Labs Sound Blaster 16 PCI
3D wavetable Stereo Sound
56K PCI v.90 Fax/Modem w/Voice
Stereo Microphone and 240W Speakers
Deluxe ATX Tower Case
MS Windows'98 and Internet Explorer 5.0
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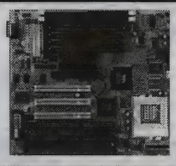
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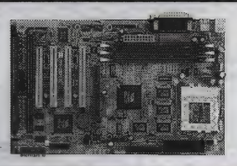
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- Baby AT Size: 9.2" x 8.6"

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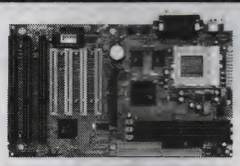
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- VIA Apollo MVP3 AGPset
- 100MHz BUS Speed
- 1MB Pipeline Burst Cache
- ATX Form Factor: 12.2" x 8.12"

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***NEW!* AMD K6-3 3DNOW Technology**
K6-3 400/450/500 ..... 249/299/499



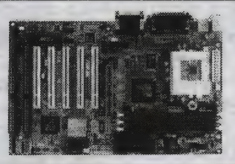
1590S TRINITY 100

$85

- VIA Apollo MVP3 AGPset
- 100MHz BUS Speed
- 1MB Pipeline Burst Cache
- Mini-AT design: 11.1" x 8.75"

AMD K6-2 3DNOW Technology
K6-2 380/400/450/475 ..... 159/175/189/215

***NEW!* AMD K6-3 3DNOW Technology**
K6-3 400/450/500 ..... 259/315/529



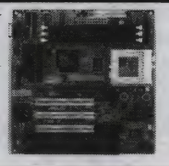
ASUS P5A

$89

- Ali M1541 Aladdin V AGPset
- 100MHz BUS Speed
- 512K Pipeline Burst Cache
- ATX Form Factor: 8.3" x 12.0"

AMD K6-2 3DNOW Technology
K6-2 380/400/450/475 ..... 159/179/195/219

***NEW!* AMD K6-3 3DNOW Technology**
K6-3 400/450/500 ..... 265/315/499



ASUS P5A-B

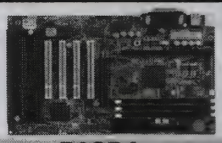
$82

- Ali M1541 Aladdin V AGPset
- 100MHz BUS Speed
- Baby AT design: 8.7" x 8.5"

AMD K6-2 3DNOW Technology
K6-2 380/400/450/475 ..... 155/169/189/209

***NEW!* AMD K6-3 3DNOW Technology**
K6-3 400/450/500 ..... 259/309/499

Intel® 440BX / 440GX Chipset Motherboards



P6SBA

SUPERMICRO $105

- Intel® 440BX Chipset (enabling AGP)
- SUPPORT Single PENTIUM-II 233—500MHz
- SUPPORT 100MHz PC SDRAM memory
- ATX size

Intel® Celeron® Processor
333/366/400/433/466MHz 169/179/209/239/285
Intel® Pentium® II Processor
400MHz 295
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 399/629/929

P6SBS

SUPERMICRO $279

- Intel® 440BX Chipset (enabling AGP)
- SUPPORT Single PENTIUM-II 233—500MHz
- Adaptec AIC 7895 UWide Dual SCSI on-board
- SUPPORT 100MHz PC SDRAM memory
- ATX size

Intel® Celeron® Processor
333/366/400/433/466MHz 359/369/399/429/469
Intel® Pentium® II Processor
400MHz 479
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 579/809/1109

P6DGS

SUPERMICRO $389

- Intel® 440GX Chipset (enabling AGP)
- SUPPORT Dual PENTIUM-II 233—500MHz
- Adaptec AIC 7895 UWide Dual SCSI on-board
- SUPPORT 100MHz PC SDRAM memory
- ATX size

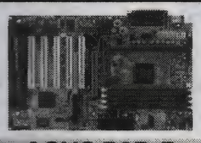
Intel® Pentium® II Processor
400MHz 585
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 689/919/1219
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 975
(2) 500MHz Intel Pentium® III (Katmai) 1419
(2) 550MHz Intel Pentium® III (Katmai) 1999

P6DBS

SUPERMICRO $349

- Intel® 440BX Chipset (enabling AGP)

Intel® Pentium® II Processor
400MHz 559
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 659/895/1189
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 949
(2) 500MHz Intel Pentium® III (Katmai) 1399
(2) 550MHz Intel Pentium® III (Katmai) 1959



ASUS P2B-F

$119

- SUPPORT Single PENTIUM-II 233—500MHz
- Intel® 440BX AGPset (100MHz) Chipset
- SUPPORT 100MHz PC SDRAM memory
- ATX form factor: 7.5" x 12.0"

Intel® Celeron® Processor
333/366/400/433/466MHz 195/209/229/259/309
Intel® Pentium® II Processor
400MHz 309
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 415/645/945

ASUS P2B-S-98

$309

- SUPPORT Single PENTIUM-II 233—500MHz
- Intel® 440BX AGPset (100MHz) Chipset
- Ultra DMA 33 MB/s burst data transfer rate
- Adaptec Ultra/Ultra Wide SCSI onboard
- **Adaptec 7890 Ultra-2 Wide SCSI on-board controller 80MB/s transfer rate**
- 3-168 pin DIMM Sockets
- 4 PCI / 3 ISA Slots, 1-AGP Connector
- ATX form factor: 7.5" x 12.0"

Intel® Celeron® Processor
333/366/400/433/466MHz 395/399/429/455/499
Intel® Pentium® II Processor (Katmai)
400MHz 509
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 615/845/1139

P6DGE

SUPERMICRO $229

- Intel® 440GX Chipset (enabling AGP)
- SUPPORT Dual PENTIUM-II 233—500MHz
- SUPPORT 100MHz PC SDRAM memory
- ATX size

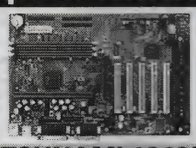
Intel® Pentium® II Processor
400MHz 425
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 529/759/1049
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 809
(2) 500MHz Intel Pentium® III (Katmai) 1275
(2) 550MHz Intel Pentium® III (Katmai) 1799

P6DBE

SUPERMICRO $179

- Intel® 440BX Chipset (enabling AGP)

Intel® Pentium® II Processor
400MHz 369
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 475/699/999
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 759
(2) 500MHz Intel Pentium® III (Katmai) 1219
(2) 550MHz Intel Pentium® III (Katmai) 1759



TSUNAMI 1846S

$97

- Intel® 440BX Chipset (enabling AGP)
- SUPPORT Single PENTIUM-II 233—500MHz
- SUPPORT 100MHz PC SDRAM memory
- ATX size

Intel® Celeron® Processor
333/366/400/433/466MHz 169/179/199/229/279
Intel® Pentium® II Processor
400MHz 289
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 395/625/919

TIGER-100 1832DL

$175

- Intel® 440BX Chipset (enabling AGP)
- SUPPORT Dual PENTIUM-II 233—500MHz
- SUPPORT 100MHz PC SDRAM memory
- ATX size

Intel® Pentium® II Processor
400MHz 369
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 469/699/989
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 759
(2) 500MHz Intel Pentium® III (Katmai) 1219
(2) 550MHz Intel Pentium® III (Katmai) 1799

P6DGU

SUPERMICRO $439

- Intel® 440GX Chipset (enabling AGP)
- SUPPORT Dual PENTIUM-II 233—500MHz
- Adaptec 7890 Ultra-2 Wide SCSI on-board controller 80MB/s transfer rate
- SUPPORT 100MHz PC SDRAM memory
- ATX size

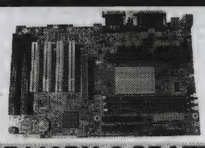
Intel® Pentium® II Processor
400MHz 645
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 749/979/1259
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 1029
(2) 500MHz Intel Pentium® III (Katmai) 1479
(2) 550MHz Intel Pentium® III (Katmai) 2049

P6DBU

SUPERMICRO $399

- Intel® 440BX Chipset (enabling AGP)

Intel® Pentium® II Processor
400MHz 609
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 609/715/945
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 999
(2) 500MHz Intel Pentium® III (Katmai) 1459
(2) 550MHz Intel Pentium® III (Katmai) 1999

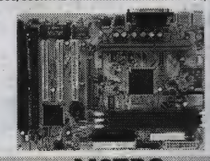


SE440BX-2 SEATTLE

intel $119

- Intel® 440BX Chipset (enabling AGP)
- SUPPORT Single PENTIUM-II 233—500MHz
- Yamaha Wavetable Sound Built-in
- SUPPORT 100MHz PC SDRAM memory
- ATX size

Intel® Celeron® Processor
333/366/400/433/466MHz 195/199/225/255/299
Intel® Pentium® II Processor
400MHz 309
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 409/645/945



M6TBC

BIOSTAR GROUP $82

- Intel® 440BX Chipset
- Support Single Pentium® II 233-450MHz
- Support 100MHz PC SDRAM memory
- ATX form factor: 10.5" x 7.6"

Intel® Celeron® Processor
333/366/400/433/466MHz 155/159/189/215/265
Intel® Pentium® II Processor
400MHz 275
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 379/609/899

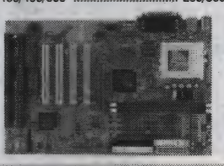
THUNDER-100 1837UANG

TYAN $499

- Intel® 440GX Chipset (enabling AGP)
- SUPPORT Dual PENTIUM-II 233—500MHz
- Adaptec AIC 7895 UWide Dual SCSI on-board
- Intel® PCI 100MBs network on-board
- Yamaha wavetable audio on-board
- SUPPORT 100MHz PC SDRAM memory
- ATX size

Intel® Pentium® II Processor
400MHz 699
Intel® Pentium® III Processor (Katmai)
450/500/550MHz 819/1039/1329
SUPPORT DUAL PENTIUM-II CPUs
(2) 450MHz Intel Pentium® III (Katmai) 1099
(2) 500MHz Intel Pentium® III (Katmai) 1539
(2) 550MHz Intel Pentium® III (Katmai) 2139

All prices subject to change without notice.
Previous Sales Excluded.
Not responsible for typographical errors.



M5-ALA

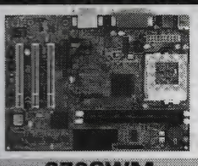
BIOSTAR GROUP $66

- Ali M1541 Aladdin V AGPset
- 100MHz BUS Speed
- ATX Form Factor: 12.0"x 8.0"

AMD K6-2 3DNOW Technology
K6-2 380/400/450/475 ..... 139/155/169/197

***NEW!* AMD K6-3 3DNOW Technology**
K6-3 400/450/500 ..... 239/289/499

NEW! Intel® 810 Whitney Chipset

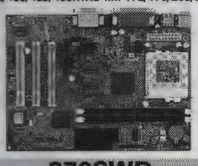


370SWM

SUPERMICRO $110

- Intel® 810 Whitney Chipset
- Single Celeron PPGA CPU
- Built-in 3D/2D Accelerated Graphics
- (3) 32-bit PCI Bus mastering slots
- (2) Ultra DMA (UDMA/33 EIDE
- (2) USB (Universal Serial Bus) ports
- Standard Micro ATX or ATX
- Size: 9.6" x 7.125"

Intel® Celeron® Processor
333/366/400/433/466MHz 172/179/205/235/279



370SWD

SUPERMICRO $129

- Intel® 810 Whitney Chipset
- Single Celeron PPGA CPU
- Built-in 4MB Accelerated Graphics
- (3) 32-bit PCI Bus mastering slots
- (2) Ultra DMA (UDMA/66) EIDE 66MBs
- (2) USB (Universal Serial Bus) ports
- Standard Micro ATX or ATX
- Size: 9.6" x 7.125"

Intel® Celeron® Processor
333/366/400/433/466MHz 195/205/229/259/299

Pentium® XEON Chipset Motherboards

SUPERMICRO $319
S2DGE XEON

500MHz Intel Pentium® III XEON w/512K 1329
550MHz Intel Pentium® III XEON w/512K 1399
500MHz **DUAL** Pentium® III XEON w/512K 2339
550MHz **DUAL** Pentium® III XEON w/512K 2499

SUPERMICRO $449
S2DGR XEON

500MHz Intel Pentium® III XEON w/512K 1439
550MHz Intel Pentium® III XEON w/512K 1499
500MHz **DUAL** Pentium® III XEON w/512K 2469
550MHz **DUAL** Pentium® III XEON w/512K 2529

SUPERMICRO $479
S2DGU XEON

500MHz Intel Pentium® III XEON w/512K 1489
550MHz Intel Pentium® III XEON w/512K 1549
500MHz **DUAL** Pentium® III XEON w/512K 2499
550MHz **DUAL** Pentium® III XEON w/512K 2569

SUPERMICRO $529
S2DG2 XEON

500MHz Intel Pentium® III XEON w/512K 1529
550MHz Intel Pentium® III XEON w/512K 1589
500MHz **DUAL** Pentium® III XEON w/512K 2559
550MHz **DUAL** Pentium® III XEON w/512K 2669

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- 366MHz Intel®Celeron w/128K cache 85
- 400MHz Intel®Celeron w/128K cache 119
- 433MHz Intel®Celeron w/128K cache 139
- 466MHz Intel®Celeron w/128K cache 179

Intel®Pentium™ II processor
- 350MHz Pentium™ II processor 185
- 400MHz Pentium™ II processor 209

Intel®Pentium™ III processor
- 450MHz Pentium™ III (Katmai) processor 299
- 500MHz Pentium™ III (Katmai) processor 509
- 550MHz Pentium™ III (Katmai) processor 765

Intel®Pentium™ XEON processor
- 500MHz Pentium™ III XEON w/512K cache 975
- 550MHz Pentium™ III XEON w/512K cache 1025

AMD AMD
- K6™-2 350MHz with 3DNOW Technology 65
- K6™-2 380MHz with 3DNOW Technology 79
- K6™-2 400MHz with 3DNOW Technology 89
- K6™-2 450MHz with 3DNOW Technology 111
- K6™-2 475MHz with 3DNOW Technology 155
- *NEW!* K6™-3 400MHz with 3DNOW Technology .. 185
- *NEW!* K6™-3 450MHz with 3DNOW Technology .. 209
- *NEW!* K6™-3 500MHz with 3DNOW Technology .. 445

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- 32MB 100MHz SDRAM, 7/8ns ..... CALL
- 64MB 100MHz SDRAM, 7/8ns ..... for
- 128MB 100MHz SDRAM, 7/8ns ..... latest
- 256MB 100MHz SDRAM, 7/8ns ..... pricing

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IDE Ultra DMA Drives
- 4.3 GB AC14300 Ultra DMA 3.5" 9ms 5400 RPM 109
- 6.4 GB AC26400 Ultra DMA 3.5" 9ms 5400 RPM 121
- 8.4 GB AC28400 Ultra DMA 3.5" 9ms 5400 RPM 135
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- NE2000 comp. ISA combo card 10
- NE2000 comp. PCI combo card 11
- NE2000 comp. PCI 10/100MBs 10-BaseT 15
- D-LINK DFE-530TX PCI 10/100MBs 10BaseT 29
- Intel EtherExpress Pro 100 PCI 10BaseT 55
- 3Com 3c905B-TXNM PCI 10/100 Retail Package 85
- 3Com 3c905B-TX w/wake PCI 10/100 Retail Package 99
- 9-port 10MBs network hubs 39
- 18-port 10MBs network hubs 62
- D-LINK 8-port 10/100MBs Dual speed network hub 149
- D-LINK 16-port 10/100MBs Dual speed network hub .. 279

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CD-ROM DRIVES
- 44X Internal IDE 39
- TOSHIBA 40X Internal IDE 52
- TOSHIBA 40X Internal SCSI 83

CD-ROM (INTERNAL) **RECORDABLES/REWRITEABLES**
- MITSUMI CR-4802TE 8X/4X CDRW, IDE Retail Package 225
- TEAC CD-56S 6X/24X CDR, SCSI Retail Package 329
- BTC 621E 2X/6X CDR-W, IDE Retail Package 169
- HP 8100i 8X/4X/2X CDR-W, IDE Retail Package 265
- HP 8200i 24X/4X/4X CDR-W, IDE Retail Package 299
- Smart&Friendly CD SPEEDRACER 4X/4X/16 CDR-W, SCSI with SCSI Adapter, Retail Package 398

DVD CD-ROM DVD
- Creative Labs 6X Encore PC-DVD Retail Kit 205
- 3rd Generation BrandName 6X Internal Drive IDE 99

MODEMS

MOTOROLA MOTOROLA
- 56K V.90 PCI Internal Fax/Modem w/voice 28

PHOEBE PHOEBE
- 56K V.90 ISA Internal Fax/Modem w/voice 38
- 56K V.90 PCI Internal Fax/Modem w/voice 31
- 56K V.90 External Fax/Modem w/voice 57
- 56K V.90 PCMCIA Fax/Modem 59
- 56K V.90 USB External Pocket Fax/Modem 72

U S ROBOTICS U.S.Robotics
- Sportster V.90 / 56K F/M Fax/Modem w/o voice Internal Retail .. 115
- Sportster V.90 / 56K F/M Fax/Modem w/voice Internal Retail ... 132
- Sportster V.90 / 56K F/M Fax/Modem w/o voice External Retail . 135
- Sportster V.90 / 56K F/M Fax/Modem w/voice External Retail 175
- Sportster Winmodem V.90 / 56K w/o voice PCI Retail 79
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3D Full Duplex Stereo Sound Card, 80w Stereo Speakers, 155 CD Titles with Encyclopedia & Stereo Microphone
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- 40X Toshiba CD-ROM IDE 75

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- **TEAC** 1.44MB, 3.5" TEAC 17
- **SuperDisk** 120MB, 3.5" w/media SUPERDISK 82

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- 5.0 GB External printer port w/o tape 219
- 20 GB T20i Internal SCSI w/ tape 389

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- 8.0 GB Internal SCSI (TR-4 format) no tape 195
- TR-4 formated tape 25

IOMEGA iomega
- 100MB ZIP Drive, EIDE, Internal 65
- 100MB ZIP Drive, SCSI, Internal 85
- 100MB ZIP Drive, External printer port 99
- 250MB ZIP Drive, External printer port 175
- 100MB Blank ZIP Media 9
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- XJ700T Technitron 17" SVGA .25mm 1280x1024 NI 255

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- V73 17" SVGA .26mm 1280x1024 NI 259
- V75 17" SVGA .26mm 1600x1280 NI 319
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- FOCUS 8200 (programmable & built-in calculator) 37
- FOCUS 9200 (programmable/built-in calculator/trackball) 39
- Microsoft Elite Natural Keyboard 35
- Microsoft Intellimouse Serial or PS/2 27
- Logitech MouseMan 3-Button PS/2 16
- Logitech FirstMouse with Wheel PS/2 21
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- 16-bit 3D Wavetable Stereo Full Duplex 10

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- Sound Blaster 512 PCI PnP Retail Package 75
- Sound Blaster Live! FULL RETAIL PACKAGE 175

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- 16-bit SVGA with 1MB RAM 29

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- 3D Charger AGP 8MB 39
- Xpert-98 AGP 8MB 47
- All-in-Wonder 128 16MB (AGP) 195
- Rage Fury AGP 8MB/16MB/32MB 69/79/129
- Rage Fury AGP 32MB (with TV OUT) 145

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- Viper V770 nVidia Riva TNT-2 16MB (AGP) 95
- Viper V770 nVidia Riva TNT-2 32MB (AGP) 155

3DFX / STB STB
- 3dfx Voodoo-3 3000 16MB SDRAM 166MHz w/TV OUT 135
- 3dfx Voodoo-3 3500 16MB SDRAM 183MHz w/TV OUT ... Call

GUILLEMOT Guillemot
- MaxiGamer Phoenix-2 nVidia Riva TNT Vanta 8MB (AGP) 69
- MaxiGamer Xentor nVidia Riva TNT-2 16MB (AGP) 119
- MaxiGamer Xentor-32 nVidia Riva TNT-2 32MB (AGP) 199

CASES

AT TYPE CASES
- Mini Tower w/230W PS 25
- Desktop w/230W PS 28
- Mini-Mid w/230W PS 29
- Mid Tower w/230W PS 35
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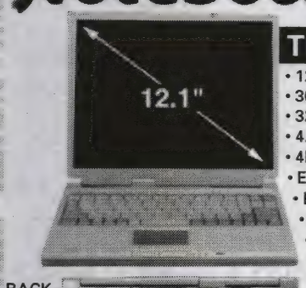
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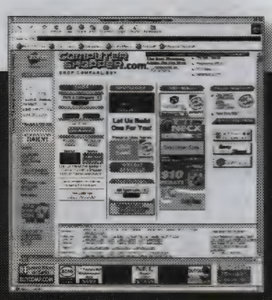
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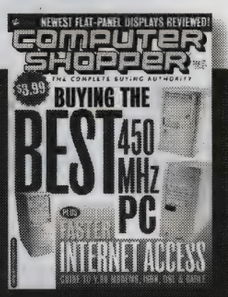


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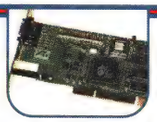


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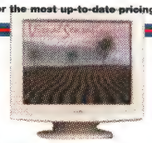
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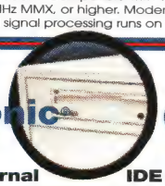


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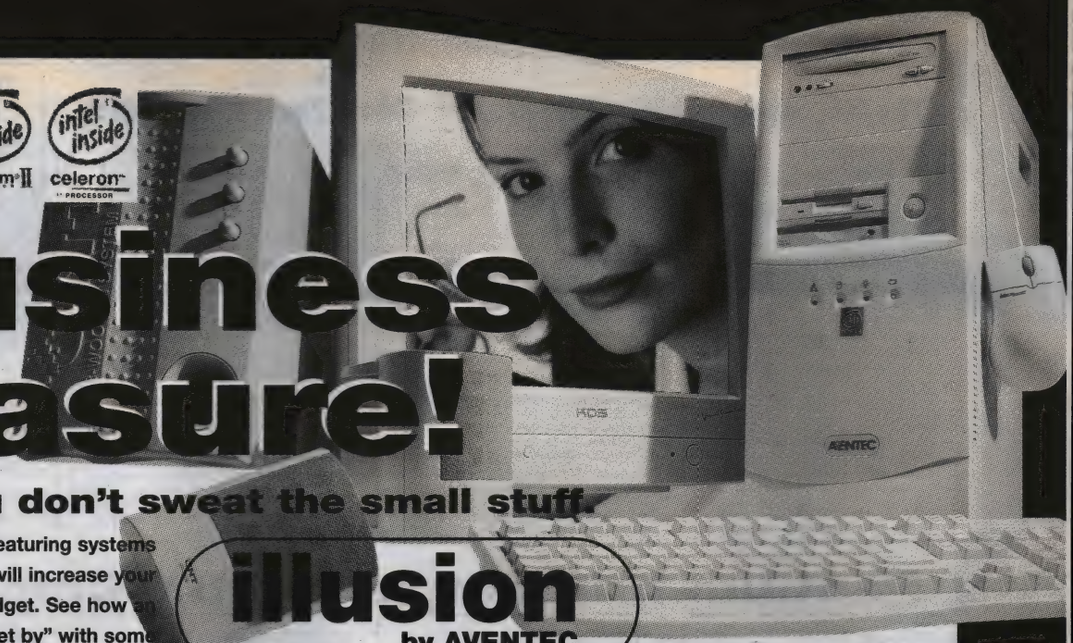
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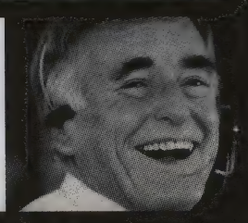
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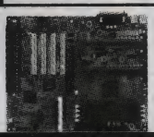
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PII 400Mhz MMX CPU.....$499
PIII 450Mhz MMX CPU.....$599
PIII 500Mhz MMX CPU.....$799
PIII 550Mhz MMX CPU.....$1039

With Dual Intel® Pentium™ II/III Processors

PII 400Mhz MMX CPU x2.....$725
PIII 450Mhz MMX CPU x2.....$899
PIII 500Mhz MMX CPU x2.....$1299
PIII 550Mhz MMX CPU x2.....$1795



$209 DUAL

A-TREND ATC-6260

Dual Pentium II/III, 100/66MHz, Intel 440 BX DP AGP Chipset, 1AGP/4PCI/2ISA, 4DIMM up to 512MB SDRAM, ATX Form Factor, Ultra-Wide SCSI-2 Onboard, 2USB, PS-2 Keyboard & Mouse.

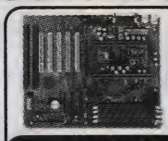
With No CPU.....$209

With Intel® Pentium™ II/III Processor

PII 400Mhz MMX CPU.....$439
PIII 450Mhz MMX CPU.....$539
PIII 500Mhz MMX CPU.....$739
PIII 550Mhz MMX CPU.....$979

With Dual Intel® Pentium™ II/III Processors

PII 400Mhz MMX CPU x2.....$665
PIII 450Mhz MMX CPU x2.....$839
PIII 500Mhz MMX CPU x2.....$1239
PIII 550Mhz MMX CPU x2.....$1735



$179 DUAL

TYAN S1832DL

Dual Pentium II/III, 100/66MHz, Intel 440 BX DP AGP Chipset, 1AGP/5PCI/2ISA, 4DIMM up to 1GB SDRAM, ATX Form Factor, 2USB, PS-2 Keyboard & Mouse.

With No CPU.....$179

With Intel® Pentium™ II/III Processor

PII 400Mhz MMX CPU.....$409
PIII 450Mhz MMX CPU.....$509
PIII 500Mhz MMX CPU.....$709
PIII 550Mhz MMX CPU.....$949

With Dual Intel® Pentium™ II/III Processors

PII 400Mhz MMX CPU x2.....$635
PIII 450Mhz MMX CPU x2.....$809
PIII 500Mhz MMX CPU x2.....$1209
PIII 550Mhz MMX CPU x2.....$1705



$109

ABIT BX6 Rev. 2.0

PII, Jumperless CPU settings w/Soft Menu, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2.

With No CPU.....$109

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$305
PII 400Mhz MMX CPU.....$335
PIII 450Mhz MMX CPU.....$425
PIII 500Mhz MMX CPU.....$665
PIII 550Mhz MMX CPU.....$865



$95

ABIT BH6

PII, Jumperless CPU settings w/Soft Menu, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 3 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2.

With No CPU.....$95

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$291
PII 400Mhz MMX CPU.....$321
PIII 450Mhz MMX CPU.....$411
PIII 500Mhz MMX CPU.....$651
PIII 550Mhz MMX CPU.....$851

Pentium II/III Single 440BX Chipset Motherboards



$245

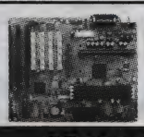
AOpen AX6B PLUS

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 4PCI/3ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Factor, 1GB Maximum On-Board Memory, Adaptec HAA-7880P UW SCSI, 2 USB.

With No CPU.....$245

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$455
PII 400Mhz MMX CPU.....$475
PIII 450Mhz MMX CPU.....$565
PIII 500Mhz MMX CPU.....$745
PIII 550Mhz MMX CPU.....$995



$109

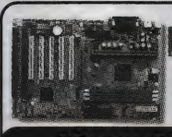
AOpen AX6B

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 4PCI/3ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Factor, 1GB Maximum On-Board Memory, 2 USB, LAN Wake Up.

With No CPU.....$109

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$305
PII 400Mhz MMX CPU.....$335
PIII 450Mhz MMX CPU.....$425
PIII 500Mhz MMX CPU.....$665
PIII 550Mhz MMX CPU.....$865



$99

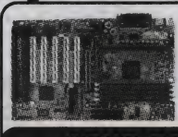
AOpen AX6BC

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 4 SDRAM Sockets, Award Bios, ATX Form Form Factor, 768MB Maximum On-Board Memory, 2 USB, LAN Wake Up.

With No CPU.....$99

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$295
PII 400Mhz MMX CPU.....$325
PIII 450Mhz MMX CPU.....$415
PIII 500Mhz MMX CPU.....$655
PIII 550Mhz MMX CPU.....$855



$125

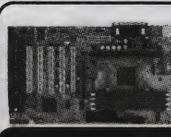
ASUS P2B-F

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 4 SDRAM, 1GB Maximum On-Board Memory, ATX Form Factor, 2USB, PS-2.

With No CPU.....$125

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$321
PII 400Mhz MMX CPU.....$351
PIII 450Mhz MMX CPU.....$441
PIII 500Mhz MMX CPU.....$681
PIII 550Mhz MMX CPU.....$881



$85

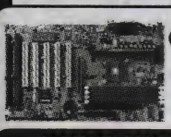
FIC VB-601

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 4 SDRAM, 1GB Maximum On-Board Memory, ATX Form Factor, 2USB, PS-2.

With No CPU.....$85

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$281
PII 400Mhz MMX CPU.....$311
PIII 450Mhz MMX CPU.....$401
PIII 500Mhz MMX CPU.....$641
PIII 550Mhz MMX CPU.....$841



$99

SOYO SY-6BA+

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 4 SDRAM, 1GB Maximum On-Board Memory, ATX Form Factor, 2USB, PS-2.

With No CPU.....$99

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$295
PII 400Mhz MMX CPU.....$325
PIII 450Mhz MMX CPU.....$415
PIII 500Mhz MMX CPU.....$655
PIII 550Mhz MMX CPU.....$855



$109

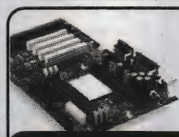
MICRONICS C400

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 3 SDRAM, 768MB Maximum On-Board Memory, ATX Form Factor, 2USB, PS-2.

With No CPU.....$109

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$305
PII 400Mhz MMX CPU.....$335
PIII 450Mhz MMX CPU.....$425
PIII 500Mhz MMX CPU.....$665
PIII 550Mhz MMX CPU.....$865



$109

INTEL SE440BX-2

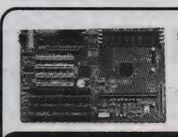
PII/III, Intel 440 BX PCI Chipset, 4PCI/2ISA/1AGP, 3 SDRAM Sockets, 768MB Maximum On-Board Memory, Award Bios, ATX Form Factor, 2 USB, PS-2.

Intel SE440BX-2 with PCI Audio.....$125
Intel SR440BX-2 with 16MB Video & PCI Audio...$199

With No CPU.....$109

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$305
PII 400Mhz MMX CPU.....$335
PIII 450Mhz MMX CPU.....$425
PIII 500Mhz MMX CPU.....$665
PIII 550Mhz MMX CPU.....$865



$109

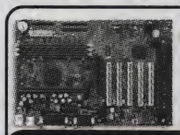
TYAN S1830S

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 4PCI/4ISA/1AGP, 4 SDRAM Sockets, Award Bios, AT Form Factor, 1GB Maximum On-Board Memory, 2 USB.

With No CPU.....$109

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$305
PII 400Mhz MMX CPU.....$335
PIII 450Mhz MMX CPU.....$425
PIII 500Mhz MMX CPU.....$665
PIII 550Mhz MMX CPU.....$865



$109

TYAN S1846S

PII/III, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 3 SDRAM Sockets, Award Bios, ATX Form Factor, 768MB Maximum On-Board Memory, 2 USB.

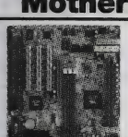
With No CPU.....$109

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$305
PII 400Mhz MMX CPU.....$345
PIII 450Mhz MMX CPU.....$455
PIII 500Mhz MMX CPU.....$665
PIII 550Mhz MMX CPU.....$865

PII AT-Style Motherboard

Celeron Socket 370 Motherboards



$55

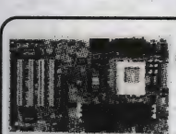
FIC KA-6100

PII/III, 100Mhz, VIA Chipset, 3PCI/2ISA/1AGP, 2 SDRAM, 512MB Maximum On-Board Memory, AT Form Factor, 2USB, PS-2, Yamaha PCI Sound On-Board.

With No CPU.....$55

With Intel® Pentium™ II/III Processor

PII 350Mhz MMX CPU.....$249
PII 400Mhz MMX CPU.....$289



$85

SOYO SY-6IZA

PII/III, 100Mhz, Intel 440ZX AGP Chipset, 3PCI/2ISA/1AGP, 3 SDRAM, 256MB Maximum On-Board Memory, ATX Form Factor, 2USB, PS-2, 3D Audio On-Board.

With No CPU.....$85

With Intel® Celeron PPGA Processor

Celeron 366Mhz w/128K.....$189
Celeron 400Mhz w/128K.....$205
Celeron 433Mhz w/128K.....$235
Celeron 466Mhz w/128K.....$265



$99

ABIT BM6

Socket 370, Jumperless CPU settings w/Soft Menu, 100Mhz, Intel 440 BX AGP Chipset, 5PCI/2ISA/1AGP, 3 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2, USB.

With No CPU.....$99

With Intel® Celeron PPGA Processor

Celeron 366Mhz w/128K.....$199
Celeron 400Mhz w/128K.....$215
Celeron 433Mhz w/128K.....$245
Celeron 466Mhz w/128K.....$275



$89

ABIT ZM6

Socket 370, Jumperless CPU settings w/Soft Menu, 100Mhz, Intel 440 ZX AGP Chipset, 5PCI/2ISA/1AGP, 3 SDRAM Sockets, Award Bios, ATX Form Factor, PS-2, USB.

With No CPU.....$89

With Intel® Celeron PPGA Processor

Celeron 366Mhz w/128K.....$189
Celeron 400Mhz w/128K.....$205
Celeron 433Mhz w/128K.....$235
Celeron 466Mhz w/128K.....$265



$99

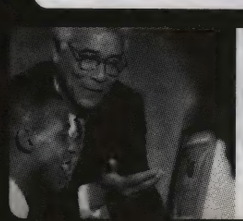
INTEL BI440ZX

Socket 370, 100Mhz, Intel 440 ZX AGP Chipset, 3PCI/1ISA/1AGP, 2 SDRAM Sockets, 256MB Maximum Memory On-Board, Award Bios, microATX Form Factor, PS-2, USB, Ensoniq PCI Audio On-Board.

With No CPU.....$99

With Intel® Celeron PPGA Processor

Celeron 366Mhz w/128K.....$199
Celeron 400Mhz w/128K.....$215
Celeron 433Mhz w/128K.....$245
Celeron 466Mhz w/128K.....$275



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AMERICA'S BEST SOURCE FOR COMPUTER HARDWARE

Socket 7 AGP Motherboards



$69
512K Cache

AOPEN AX59

Socket 7 with AGP, 100MHz, 4PCI/2ISA/1AGP, 3DIMM, 384MB Maximum Memory On-Board, 512K Cache, 2 USB, PS-2, ATX Style.

With No CPU	$69
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$129
AMD K6-2/400 w/3D	$159
AMD K6-2/450 w/3D	$179
AMD K6-2/475 w/3D	$199
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$249
AMD K6-3/450 w/3D	$299
AMD K6-3/500 w/3D	Call



$75
1MB Cache

SOYO SY-5EMA+

Socket 7 with AGP, 100MHz, 5PCI/2ISA/1AGP, 3DIMM, 384MB Maximum Memory On-Board, 1MB Cache, 2 USB, PS-2, ATX Style.

With No CPU	$75
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$135
AMD K6-2/400 w/3D	$165
AMD K6-2/450 w/3D	$185
AMD K6-2/475 w/3D	$205
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$255
AMD K6-3/450 w/3D	$305
AMD K6-3/500 w/3D	Call

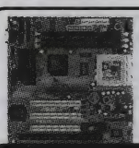


$89
512K Cache

ASUS P5A without Audio

Socket 7 with AGP, 100MHz, 5PCI/2ISA/1AGP, 3DIMM, 384MB Maximum Memory On-Board, 512K Cache, 2 USB, PS-2, ATX Style.
P5A with Audio.....$105

With No CPU	$89
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$149
AMD K6-2/400 w/3D	$179
AMD K6-2/450 w/3D	$199
AMD K6-2/475 w/3D	$219
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$269
AMD K6-3/450 w/3D	$319
AMD K6-3/500 w/3D	Call

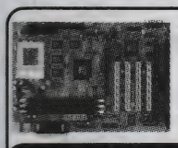


$85

ASUS P5A-B

Socket 7 with AGP, 100MHz, 3PCI/2ISA/1AGP, 3DIMM, 512K, USB, PS-2, AT Style.
P5A-B with Audio.....$99

With No CPU	$85
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$145
AMD K6-2/400 w/3D	$175
AMD K6-2/450 w/3D	$195
AMD K6-2/475 w/3D	$215
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$265
AMD K6-3/450 w/3D	$315
AMD K6-3/500 w/3D	Call

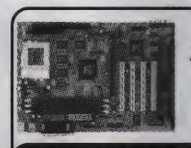


$95
2MB Cache

FIC PA-2013-2MB

Socket 7, 100Mhz, VIA Apollo VP3 Chipset, 4PCI/2ISA/1AGP, 3 SDRAM, up to 450MHz, ATX style, 2MB Cache, 2 USB, PS-2.

With No CPU	$95
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$155
AMD K6-2/400 w/3D	$165
AMD K6-2/450 w/3D	$205
AMD K6-2/475 w/3D	$225
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$275
AMD K6-3/450 w/3D	$325
AMD K6-3/500 w/3D	Call

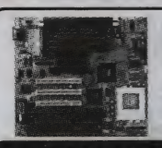


$75
1MB Cache

FIC PA-2013-1MB

Socket 7, 100Mhz, VIA Apollo VP3 Chipset, 4PCI/2ISA/1AGP, 3 SDRAM, up to 450MHz, ATX style, 1MB Cache, 2 USB, PS-2.

With No CPU	$75
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$135
AMD K6-2/400 w/3D	$145
AMD K6-2/450 w/3D	$185
AMD K6-2/475 w/3D	$205
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$255
AMD K6-3/450 w/3D	$305
AMD K6-3/500 w/3D	Call

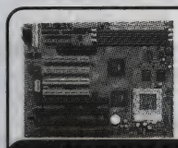


$69
1MB Cache

FIC VA-503+

Socket 7, 100Mhz, VIA Apollo VP3 Chipset, 3PCI/3ISA/1AGP, 2 SDRAM, 256MB Maximum Memory On-Board, 4-72 pin, up to 350MHz AT style, 1MB Cache.

With No CPU	$69
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$129
AMD K6-2/400 w/3D	$159
AMD K6-2/450 w/3D	$179
AMD K6-2/475 w/3D	$199
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$249
AMD K6-3/450 w/3D	$299
AMD K6-3/500 w/3D	Call

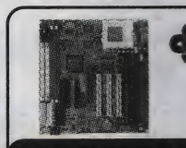


$85
1MB Cache

TYAN S1590S

Socket 7 with AGP, 100MHz, 4PCI/4ISA/1AGP, 3DIMM, 384MB Maximum Memory On-Board, 1MB, USB, PS-2, AT Style.

With No CPU	$85
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$145
AMD K6-2/400 w/3D	$175
AMD K6-2/450 w/3D	$195
AMD K6-2/475 w/3D	$215
With AMD K6-3 with 3D Processor	
AMD K6-3/400 w/3D	$265
AMD K6-3/450 w/3D	$315
AMD K6-3/500 w/3D	Call

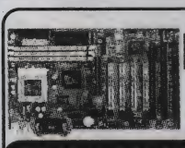


$69
1MB Cache

SOYO SY-5EHM

Socket 7 with AGP, 100MHz, 3PCI/3ISA/1AGP, 2DIMM/2SIMM, 576MB Maximum Memory On-Board, 1MB Cache, USB, PS-2, Baby AT Style.

With No CPU	$69
With AMD K6-2 with 3D Processor	
AMD K6-2/350 w/3D	$129
AMD K6-2/400 w/3D	$159
AMD K6-2/450 w/3D	$179
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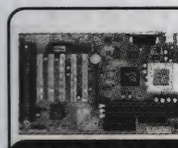


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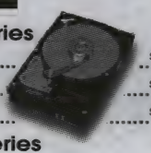


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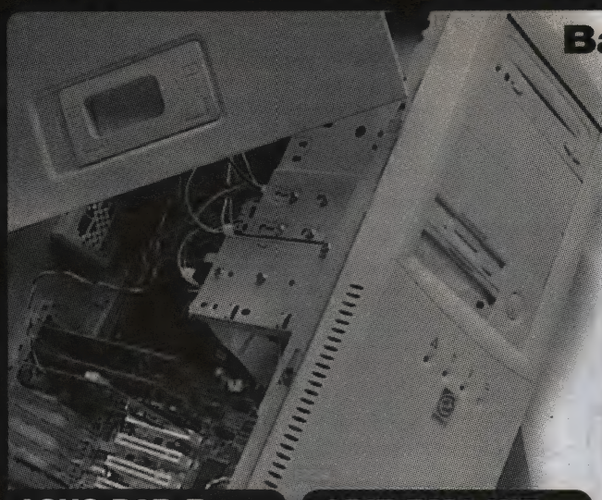
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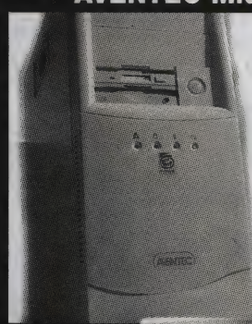
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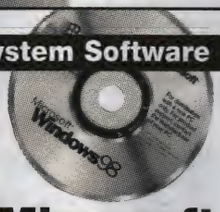
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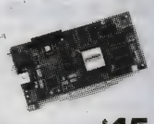
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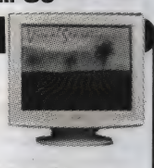
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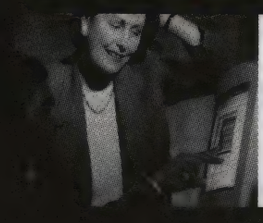
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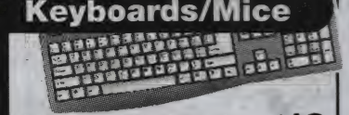
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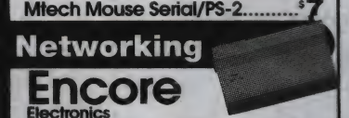
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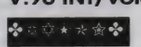
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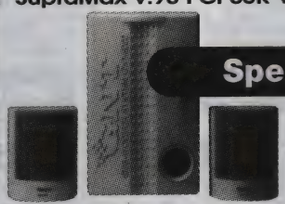
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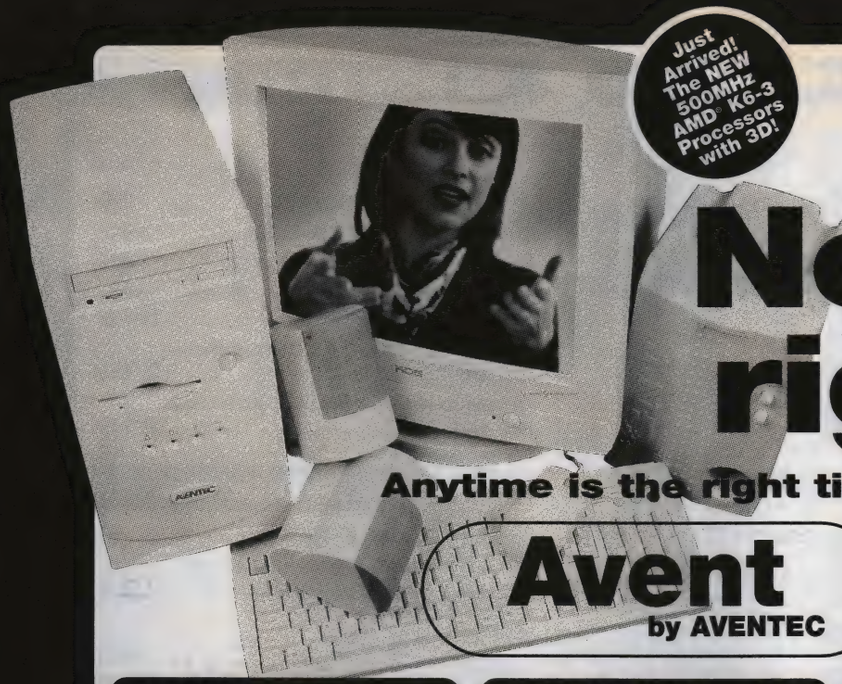
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ALICE AND BILL

The Hard Edge

People for Auction; Satellite Snags; and Alice and Bill's Seven-Year Itch

by Alice Hill and Bill O'Brien

It was at some point after he'd started FreeCell game number 20,345 that Bill noticed the small red LED flashing on the wall. He looked at the calendar. "July 19," he murmured to himself, then checked the clock at the bottom of his monitor. (It's half of an old Timex he'd duct-taped to the front bezel.) "It's 2:14 a.m.," he thought aloud.

"That must be Alice coming up the driveway." He had a short smile on his face. "She wants to remind me that August marks our seventh anniversary writing "The Hard Edge" together. Heh, heh! Not trying for the Lab this year, huh, kiddo? Oh, well, a welcome to the Basement of Doom and Pepsi-Cola instead? Probably not." Bill reached over and flipped a switch on a nearby control panel.

"What the...?" The moon was bright enough outside to light Dodger Stadium, but somehow, the ground around Alice was nearly pitch-black. If not for the little MagLite she carried in her boot, she would have had a tough time finding the edge of the driveway.

"Sounds like music—the theme from 'Mission Impossible'," she said. Alice headed in the direction of the sound and nearly ran into a 4x4 pressure-treated pole jammed into the ground. There was a little speaker on top and a yellow Post-It stuck at eye level. "I can't always get out to talk to the plants, so the speaker helps," she read.

Well, so much for sneaking up on Bill, Alice thought. "Go 20 paces northwest." She followed the beginnings of a line around to the other side of the pole where it terminated in an arrow and another note from Bill: "Don't step on the gladiolas."

Okay, 20 paces. Thump! "That's a sturdy gladiola!" But on second look, it turned out to be one of four support legs for a 10-foot-tall windmill. And another note from Bill. "Do me a favor and pull this lever. I forgot to set it to freewheel earlier, and it will overcharge the BofD&PC's battery system. Thanks."

"Oh, great," said Alice. "I'm doing errands now." She pulled the lever. Overhead, the sound of gears disengaging was muffled. Another note dropped down. "This way to the Basement of Doom and Pepsi-Cola," it read. And there was another arrow. "That's more like it!" said Alice.

There was thick grass underfoot, and Alice was puzzled as to why there was no real path. The background music had changed. It was now Julie Andrews from *The Sound of Music*. Alice was starting to wonder why Bill's neighbors didn't complain about the noise, when she bumped into something very hard, very rough, very treelike. There was another note. "Hey! If you bumped into this maple tree, you missed the entrance!"

"Missed it? Impossible!" She frowned. Just in case Bill's directions weren't entirely accurate (not that he'd try to mislead her),



ILLUSTRATION BY DAVID FLAHERTY

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The Hard Edge

she'd been swinging the MagLite in front of her. All she had seen was grass and a young filbert tree. There was a gust of wind, and Bill's note unfolded. "No, it wasn't the filbert. (Strange tree, huh?) Tell you what. Follow the lights." Alice wondered what lights Bill was talking about when a parallel row of walkway lights came alive.

"They'll take you to the porch at the back of the house. Door's open. There's some great chocolates, reasonable Jarlsberg, and some interesting New York wine on ice. Don't give the dog any wine, and he can have only one chocolate.'"

Alice laughed. "He did it to me again." The background music changed again. It sounded like Robert Preston in *The Music Man*.

PEOPLE FOR AUCTION

When strange and even potentially deadly items like rocket launchers began appearing on the popular auction site eBay, Alice got curious. After all, if people were willing to part with just about anything on eBay, how long would it be, Alice logically pondered, before people began showing up for sale on the virtual auction block?

Wait no longer. Alice found a group who put themselves on the block for $3.4 million dollars, promising everything from director-level management to network engineering, and even coffee runs. It seems that the team was so enamored of their working relationship, when they saw their current company going down the tubes, they decided that auctioning themselves off as a unit was worth a shot.

Of course, the posting was soon removed, but Alice began sniffing around the darker recesses of eBay and found a surprising number of auctions devoted to professionals who wanted to sell some of their talent. Want a marketing brochure? Bids start at a dollar. Interested in a good freelance copy editor? All it takes to play is $10.

Now you may scoff at such a notion, but Alice isn't paid to sit on the Hard Edge and scoff. (That would be Bill.) Alice is paid to ferret out the coming trends and see how they may impact our technical lives later on.

According to Alice, someday very soon, eBay or some other auctioneer-to-be is going to hear a very loud bell ring. Headhunting sites are going to merge with auction sites to form the ultimate work-finding service for the future. Alice says "ultimate" if the economy continues to boom and crazy bands of network engineers can actually land $3.4 million without much trouble.

The dark side (you knew there had to be one) is seen in industry situations where there is more supply than demand. Of course, Alice feels that the eventual solution won't be about all lightness or all darkness. She thinks that already, certain professions are prone to bidding and others are not. (Top NT expert, yes. Bike messenger, no.)

With all the disenfranchised Dilberts running around these days, you can buy a well-run team as a unit from an auction site and snap it into your organization.

Consultants, for example, routinely accept bids for their services, and the team who started it all is not really that far from what the coming world may want from its future employees. With all the disenfranchised Dilberts running around these days, you can buy a well-run team as a unit from an auction site and snap it into your organization. It's certainly a cheaper solution in the long run than trying out various squeaky wheels and egomaniacs until some sort of unit is formed.

One thing is certain: There is a HUGE trend brewing here, friends. Small, highly skilled teams and an auction site that takes professional groups seriously, giving them a chance to find the best fit or the highest bid—that's a recipe for something new and powerful. Of course, Alice and Bill are always the first to capitalize on upcoming trends. (Remember when they called themselves a portal?) Hint: Search for Alice and Bill on eBay sometime this month. You knew they had to try it!

FAIR ACCESS

Those of you who have been reading "The Hard Edge" will remember Bill's debacle with the Hughes Satellite Network DirectPC system. It seems as if something new has been added.

Reader Billy Godfrey piped up with a note about DirectPC's Fair Access Policy. What's that, you say? Well, it goes something like this: You buy the satellite system. You pay DirectPC its monthly fee. You pay your ISP its monthly fee (because you need both). Then you sit back and start downloading things at an incredible rate of speed.

Then one day you notice that things have been downgraded to just a credible rate of speed. "What's up?" you wonder. "Is there dirt on my dish? Did a cloud pass between me and the satellite? Is it raining outside?" All these things pass through your mind, and then when you're not really satisfied that any of them are the answer, you call DirectPC.

"No, you're not having any problems," they respond. "We just took a look at your account and decided that you've been downloading too much, so we slowed your access. We have to give everyone an equal shot at all of that information out there on the Web, you know."

Up to that point, Bill had thought that AT&T WorldNet was the lamest thing on the Web. After all, it only provides one honestly working line for the entire 201 area code, and that line is often impossible to connect with between 11 a.m. and 11 p.m. And AT&T is the phone company! But this is even lamer. It's almost the epitome of lameness.

You pay DirectPC for an access plan that provides an advertised connect speed during defined

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hours. How much information you can download during the plan's time period should not be an issue. The fact that it is implies that DirectPC is having a bandwidth problem—sort of like the number of lifeboats available on the *Titanic*. If indeed DirectPC didn't correctly anticipate demand on its system (when Bill was testing the system, Hughes didn't seem to have anticipated customer support), it should not be the subscribers who are penalized. Very, very lame.

DISCONNECTED

Bill lost the letter. That's Alice's story, and she's sticking to it. Anyway, a reader who will now go nameless wrote in to say that many ISPs don't recognize FTP downloads as network activity.

What's the big deal, you say? Well, if you're downloading a 15MB file (like Netscape, for example, and certainly not some giant game demo), you could time out from your ISP because of inactivity. There you are, 9MB into it, and click! It's not a good feeling.

So, says the unknown reader, what you do is set your mailer to check for new mail at some interval that's just less than your ISP's timeout (often about 30 minutes for many ISPs). The mail check is relatively low-bandwidth and will remind your ISP that you're still online and active. In the meantime, your download will continue.

Not a bad idea at all.

COULD-BE COOL

Santa Clara, Calif.-based ACS Innovations announced that it was releasing a 4x4x16 CD-RW drive at the end of February. Bill announced that he wanted to see one. Time passed. Then in April, ACS announced that it was releasing a slimline 4x4x20 CD-RW for portables. A week later, it had a 4x4x20 for desktops. (And you think this isn't a fast industry.) It showed up at the BofD&PC yesterday (which is a couple of months ago in real time). It's a Ricoh RW7040A drive, and Bill was going to sling it in this month until he remembered all of the flap about MP3 and CD-recorder capabilities.

So along with testing the Ricoh against a Sony (which he's already done) for CD creation, the ACS drive is also going to get a chance to battle MP3 for speed. Unfortunately, that also means more time is needed. Check back here next month. Hopefully, Alice can pry Bill away from making CDs long enough to get him to write about it.

IT'S THAT TIME AGAIN

Last year at this time, Alice and Bill asked loyal "Hard Edge" readers to send them $6 to commemorate six fine years of "Hard Edge" enjoyment. While most respondents plied Alice and Bill with digital pictures of dollar bills, fake handwritten currency (fooled Bill and almost got him six years in the slammer, thank you very much), and nice notes of encouragement sans cash, a few kind souls actually dug deep and showed a little green.

How much you can download should not be an issue. But DirectPC is having a bandwidth problem—like the number of lifeboats available on the *Titanic*.

Alice and Bill were so touched by this that they decided to repeat their usual plea in their best Sally Struthers imitation: Won't you please show Alice and Bill how much they've meant to you over the last seven years? For less than a pound of coffee, you can help two struggling writers find humor and warmth in their day so they can go on to face more bad software, strange Internet addresses, and devastating hardware crashes.

Say happy seventh anniversary to Alice and Bill—dig deep, or at least drop them a note to say that you care!

You can send them an anniversary greeting electronically at *hardedge@zd.com* or send snail mail to:

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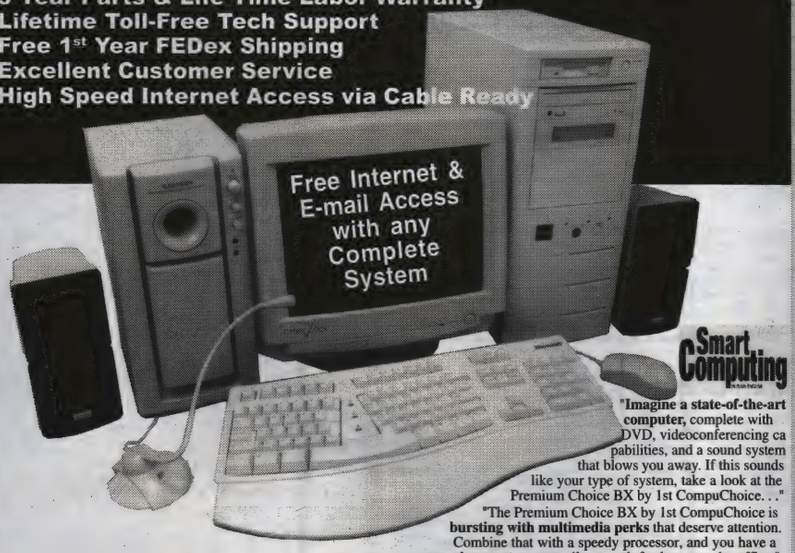
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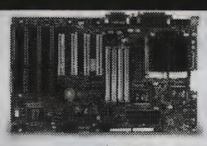
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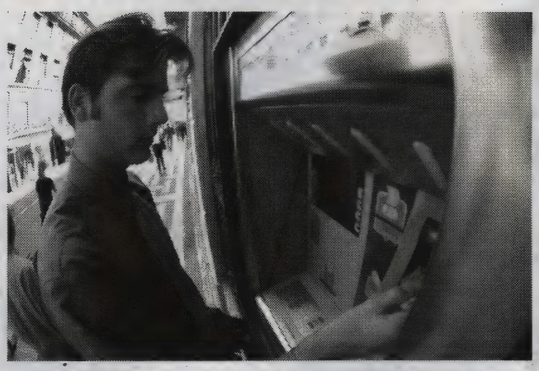
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It's All in The Cards

U.S. consumer interest in smart cards picks up, with all eyes toward e-commerce.



The future looks much brighter for smart cards in the United States. According to a recent study conducted for the Smart Card Forum, a group of 195 vendors that researches the use of smart cards, consumer interest in using smart cards, which will allow them to perform various activities via credit-card-size devices, is ripe.

The United States lags behind Europe and Asia in its use of smart-card technology. According to the research company Datamonitor, more than 80 percent of the smart-card market, which is expected to exceed $3.5 billion by 2002, is centered in Europe. But that is expected to change as consumers develop a better understanding of the potential benefits.

Smart cards store information using an embedded microprocessor chip and can take two forms: intelligent smart cards or memory cards. An intelligent smart card stores and secures information and offers read/write capability so that new information can be added. Memory cards are information-storage cards that contain stored values—money, for example.

Because vendors can build encryption into the chip, smart cards have built-in protection from damage or theft, making them more secure than their magnetic-stripe brethren, which carry information on the outside of the card. They can be used to hold medical-alert information, health-insurance IDs, bank access codes, and driver's-license information, for example. Finally, because the information is accessed instantly and further data is collected without linking to a network, the technology is also cost-efficient.

ACTIVE LINKS

www.cardshow.com ..... *Smart-card news, applications, and history*
www.scia.org ..... *Smart Card Industry Association*

But the real push for smart cards in the United States in particular is the Internet. Smart cards are an apt solution for e-commerce, as they address much of the security problems associated with other methods, and they support features like encryption-key mobility, secure single sign-ons, and electronic digital signatures.

Consumers listed their top desired functions as making purchases, bank access, and identification. They would be willing to pay up to $50 for the card itself and a $25 annual fee. The survey also showed that potential smart-card users match the profile of typical early adopters of technology: They are in their 30s, earn high incomes, and own a cell phone and a personal computer.

American companies like VHS Network are betting that it won't be long until smart cards catch on. VHS Network, along with Groupmark Canada, will begin licensing its SmartCard technology in the United States. Likewise, Visa has been working on a multiple-application card that includes credit, debit, and stored-value functions, along with Java "cardlets," such as loyalty programs, local transit applications, and driver's-license programs. Its "open architecture" will allow Visa issuers to add applications to cards after they have been issued, while maintaining security "firewalls" between applications.

But as with most consumer technologies, standards need to emerge to spur widespread acceptance. Interoperability—compatibility among cards, card-reading devices, and applications—must be achieved. The Smart Card Forum is working on standardized interfaces for cards, terminals, and slots so that cards can be used across the United States and in other countries. And to address potential privacy concerns, the Smart Card Forum also issued in May cross-industry guidelines on data privacy for industry and government issuers of smart cards.

The work toward standards continues, and Dataquest forecasts that by 2001, 3.4 billion smart cards will be used worldwide. The industry is expected to experience steady growth over the next five years, particularly with cards that enable e-commerce and secure access to networks. ***—Jon Halpin***

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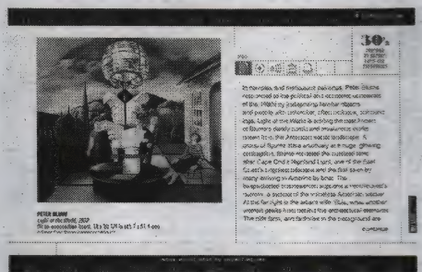
ArtMuseum.net brings a century of American art to your PC.

In a groundbreaking online project, ArtMuseum.net, Intel Corp., and the Whitney Museum of American Art have brought an expansive two-part exhibition, "The American Century: Art and Culture 1900 to 2000," to the public.

Backed by a $6 million grant and supporting technology from Intel and Razorfish, ArtMuseum.net (*www.artmuseum.net*) is a dramatic online visual experience. The site went live on April 23 to showcase 100 selections (out of 700 works) and will remain up for three years.

In addition to displaying rarely seen works by the likes of Georgia O'Keefe and Rockwell Kant, the site augments each work with in-depth background on the artists. A customizable filter feature places each piece in a cultural context; the site also features streaming capabilities for viewing related video footage and an outstanding zoom tool for up-close studies. Visitors can also compile various works and house them at a personalized URL accessible to friends or teachers.

The venture has also given Intel a chance to push its new Pentium III technology. Joann O'Brien, Intel's press relations director, says, "Intel has an ongoing commitment to its processor business, and ArtMuseum.net enables Intel to demonstrate how it can be used to maximize its power and capabilities on the Internet."



To bring the exhibit to life, Intel deployed a variety of technologies. Several Pentium III and Pentium II Xeon servers host the site, and JavaScript and DHTML were used extensively. Accessing the site requires at least a 4.0-generation browser, Macromedia Flash and Shockwave plug-ins, the LivePicture Zoom viewer, and RealNetworks' RealPlayer G2 plug-ins.

For optimum viewing, Intel recommends Windows 95, Windows 98, Windows NT, or Linux, as well as a 200MHz or faster Pentium system with at least 32MB of RAM and Sound Blaster-compatible audio. At press time, the site had not been tested on the Macintosh, but an Intel spokesperson expressed confidence that Mac users would also have a favorable browsing experience.

At the Whitney itself, the Online Exhibition Center on the fifth floor of the museum features 10 Pentium III personal computers equipped with superfast Internet connections for browsing the site. Intel is also conducting in-museum testing on extending the Web content to handheld PCs.

"Going forward," says O'Brien, "Intel will track the online-education element of 'The American Century' closely to learn how to apply this to other programs." ***—J.H.***

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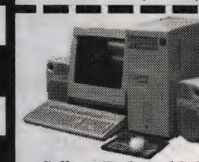
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The Sound and The Fury

Rather than stamp out MP3, music companies aim to develop a variety of secure audio formats to save the day.

by Barbara Krasnoff

In 1983, Universal Studios tried to stop Sony Corp. from manufacturing VCRs for fear that it would destroy its business of creating movies and TV shows. Universal lost the battle, but in the end, a new, highly profitable industry was born.

These days, the music industry finds itself in a similar dilemma. The Internet has become the distribution source for thousands of audio files that are uploaded, downloaded, and traded by music fans. Though the new form of distribution has exposed a greater variety of music to a wider audience of consumers, Web users are often downloading files for free—without regard for the creator or copyright protection. That means musicians and the companies that represent them are losing out on profit they deserve.

Recent technologies like MP3 have made Internet distribution even more appealing and in turn made the problem more serious. Thankfully, again through new technologies and greater awareness, forthcoming solutions can give musicians and the music industry some protection, while still giving consumers access to the diversity of music available on the Net.



ILLUSTRATION BY TIMOTHY COOK

LETTING IT RIP

Online audio can be distributed in two ways: through streaming technology, which allows users to listen to a file as it's being downloaded, or by saving the entire file to disk for listening to later. Until recently, the latter method was problematic for anyone who didn't have a superfast Internet connection, because downloading large audio files required too much time and hard drive space. Compression saved download time a bit, but it also caused data to be dropped, making sound quality less than stellar.

Then MP3 (MPEG-1, Layer 3) hit the scene. MP3 is a codec, or compression/decompression format, first introduced in 1993. Since its introduction, it has enabled thousands of music fans to download and save their favorite music tracks, record the contents of their CDs, and distribute those new files online.

Making MP3 files from audio CDs is a three-step process that involves "ripping" the audio track from the CD, saving it as a WAV file, and then encoding it into an MP3 file. Readily available shareware and commercial software has made it almost as easy for consumers to create MP3 files as it is to listen to them. The result has been an atmosphere in which recordings are digitized and traded freely—and often illegally.

The members of the Recording Industry Association of America (RIAA) went to court for a solution last October. The RIAA unsuccessfully sued Diamond Multimedia to try to stop the sales of the Rio player, a portable MP3 player.

So another avenue was explored. As many companies have discovered, the best and perhaps only way to lure consumers away from a useful technology is to provide a better one. In May, members of the RIAA and various technology vendors announced the formation of the Secure Digital Music Initiative (SDMI), a group dedicated to researching and establishing a secure format. An official membership roster has not yet been released, but approximately 110 technology companies, along with most major recording labels, support the initiative.

SDMI's goal is to create an open architecture that will provide consumers with convenient access to quality recordings. That architecture will ensure interoperability among digital products and services; it will also ensure copyright protection for artists' work and foster successful business on the Internet.

SDMI provides the framework under which a standard and secure digital-music specification can be created. However, though SDMI has mapped out the guidelines for developing a new format, it won't be the creator of that format. That's been left up to interested companies, who will propose technologies for the standard.

Currently, many vendors are trying to develop formats that will offer superior audio quality and faster download times. Some proposed systems will also limit the number of allowable copies, unlock the rights to a file once a payment is

The Sound and the Fury

registered, or cause a file to "expire" within a certain amount of time. In many ways, this is a similar concept to the "crippleware" practice used by some software companies—if you don't actually buy it, you don't get to keep it.

PLAY IT AGAIN

MPEG-2 Advanced Audio Coding (AAC) is the next step in the MPEG lineup, and several companies have introduced new formats based on the standard. AT&T Labs developed its a2b format based on a modified version of MPEG-2 AAC. According to AT&T, its proprietary compression algorithms can compress music at ratios up to 20-to-1 and improve audio quality.

For protecting copyrights, AT&T's security system, PolicyMaker, authenticates a user's credentials by checking the song license against a digital signature. It regulates aspects such as whether a file can be copied, how often it can be copied, how many times it can be played, or how long it can be played. For example, a recent offering on the a2b music Web site (*www.a2bmusic.com*)—a "free" version of Ellington's classic "Take the A Train"—was programmed to expire after 30 days.

Likewise, Liquid Audio's new player will support AAC, along with MP3, RealNetworks' G2, and Microsoft's Windows Media Technology. Liquid Audio's system allows consumers to stream audio for preview, purchase it, and download it. But though Liquid Audio has become well-known among music fans, it has not displaced MP3's prime status.

Paving its own path, Microsoft announced its own streaming-media platform, Windows Media Technology 4.0. This includes MSAudio, the codec Microsoft is pitting against MP3. And as predicted by many analysts, Microsoft has teamed up with Sony Music Entertainment to jointly promote new technology, music, and video products on the Web. The two companies will cross-market and promote each other's online properties, as well as streaming audio and video events. For its part, Sony Music will offer protected downloadable music content from its roster of artists, starting with the launch of Windows Media Technology 4.0 this summer.

Windows Media 4.0 is currently in public beta testing, and Microsoft says MSAudio will offer a superior bit-rate range and sampling rate. Users who want to play MSAudio files will do it with Windows Media Player 6.2, which was available in beta at press time. The player checks the user's license using the Windows Media Rights Manager, which offers license registration.

At about the same time that MSAudio was introduced, IBM and RealNetworks announced an agreement to incorporate the Electronic Music Management System, which provides secure distribution of digital content, into RealNetworks technology. RealNetworks also announced that it would purchase Xing Technology, a developer and distributor of encoding and decoding technology for digital audio and video.

The result is the introduction of a new audio player, called Real Jukebox. Real Jukebox plays a variety of audio types—including MP3 and its own G2 format—and can record from a CD onto a hard drive, making it easier for con-

(continued on page 290)

Music on the Move

Listening to the music you downloaded from the Net while you work at your PC is definitely cool, but most music fans don't want to haul notebooks to the beach or hang them from their hips while jogging. To give MP3 portability, manufacturers have been creating portable audio players that let you take the music with you.

The first such product was Diamond Multimedia's Rio PMP300. The Rio was introduced in November 1998 and created quite a stir in the market. As discussed, its introduction led the RIAA to turn to the courts to have it removed from the shelves.

At that point, the music industry didn't really have a great deal to worry about. The Rio could play MP3 files that had been downloaded from the Internet, but it held only about an hour of music—not exactly enough for a day at the beach.

Since the introduction of the PMP300, however, Diamond has improved its product. The Rio PMP300 Special Edition now comes with 64MB of memory, adding, according to the company, another hour of play. And the $249.95 unit is upgradable to 96MB.

Diamond was the first company to introduce a portable player, but it's no longer the only one. Thomson Multimedia, the manufacturer and marketer of RCA-brand home-electronics products, has teamed up with RealNetworks to produce a new personal player, the RCA Lyra. The Lyra will play both MP3 and RealAudio G2 formats—no surprise, because RealNetworks is heavily touting its own format as a viable (and streamable) alternative to MP3. According to RealNetworks, the unit will ship with enough memory for an hour of music, and it will be upgradable using flash-memory cards.

Other companies are also preparing entries into this market, with most of the products expected to appear by the end of the year. Two companies, Samsung and Creative Labs, plan to introduce players that will not only play back digital audio, but receive FM radio signals as well.

Samsung's series of audio players, called the Yepp, will be small, credit-card-size devices that will also include voice recording. Though the Yepp will initially be offered in the Korean market, it should be available in the United States later this year. Meanwhile, Creative Labs' Nomad line, announced in April, will come in 32MB and 64MB versions. According to Creative, the latter should hold nearly two hours of audio.

Not all companies are assuming that MP3 is going to be the format of choice for their customers. Microsoft, as discussed, is touting its new Windows Media compression format. And although at press time Casio had not announced any portable devices dedicated to audio playback, the company's $499-list Cassiopeia E-100, a Windows CE-based PalmPilot look-alike, can play high-quality audio using Microsoft's Mobile Audio Player and a stereo headphone jack.

Lucent Technologies also announced in April that it is working on a portable player with a company called e.Digital. The player will use Lucent's own Enhanced Perceptual Audio Coder (EPAC) format.

It does look as though savvy consumers are going to have a lot to choose from when it comes to portable audio players. It's now up to manufacturers to offer products that will be inexpensive enough—and offer long enough play times—to attract attention. ▼

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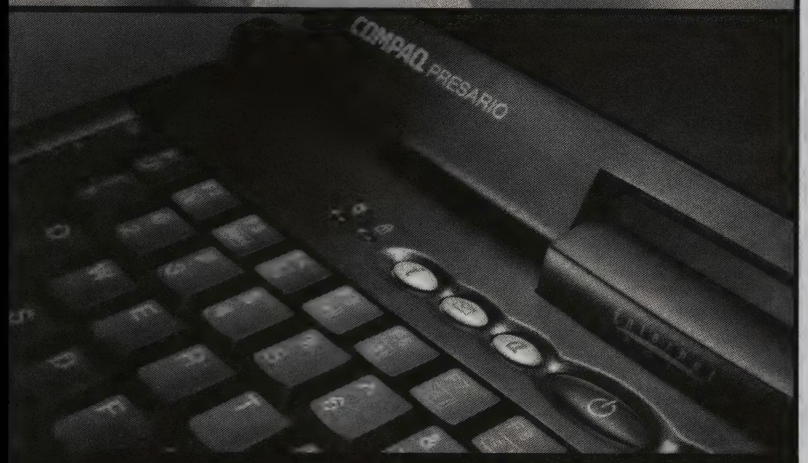
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The Sound and the Fury

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sumers to record and distribute music from their own collections. This is not a new capability—the process has been available via shareware and commercial software for a while—but RealNetworks' market clout can make it a much more common practice.

Interestingly, RealNetworks has made a concession to the concerns of the RIAA by including a security feature that limits users to one copy of a music file—though the feature can be easily deactivated by the user. Users who do choose to turn off the feature are presented automatically with a screen that tells them their responsibilities under U.S. Copyright Law. In essence, RealNetworks has passed the responsibility of monitoring illegal distribution to the end user.

Diamond Multimedia, which was sued by the RIAA when it introduced its Rio player, has announced that it too will add a copyright-protection system to future versions of Rio, using a digital rights-management system created by InterTrust Technologies. Sony is also working on its own format, tentatively named Super MagicGate, an extension of its content-protection technology. According to Sony, this distribution method will include flexible settings that allow specific tracks to be played only once, a limited number of times, or over a limited period.

Other techniques, like digital watermarking—a technology for tracking the number of copies that can be made of a file—are also being considered.

It's important to keep in mind that this isn't merely a struggle for dominance on the format battlefield—it's an attempt to achieve balance by developing a useful technology, protecting the rights of artists, and allowing music companies to maintain control of their product.

The technology won't end with audio, either. Though consumers using 56Kbps modems are not going to be downloading a lot of video in the near future, improved bandwidth eventually will bring high-quality video downloads within the range of most consumers. In fact, the brouhaha about audio distribution may be a precursor to a larger battle about who will control the distribution of video and motion pictures online. With Lucasfilms attempting to demonstrate digital distribution of cinema this summer, that day may not be too far off.

Meanwhile, MP3 still rules the audio marketplace. By the time SDMI standardizes on a secure codec—probably sometime in 2001—it may be too late. No matter how many advantages SDMI tries to offer to the consumer, it will be hard to put the MP3 genie back in its bottle. ▼

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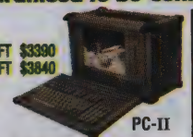


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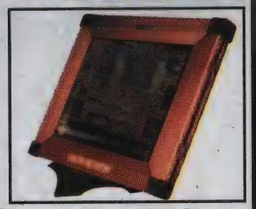


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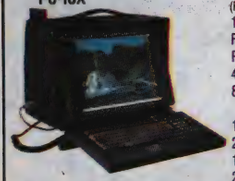


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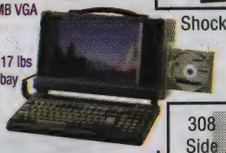
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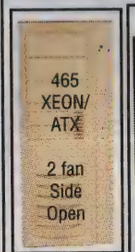


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105NLXBX	460	11.2x13.5x3.4	PS2 KB,mouse,VGA,USB,RJ45.2S,1P,AUDIO	w/FD & Slim CD		2/1	or 1
108NLX	310	11x13.6x3.4	PS2 KB,mouse,VGA,USB,RJ45.2S,1P,AUDIO	1	1/1	2/1	or 1
BX	410	11x13.6x3.4	PS2 KB,mouse,VGA,USB,RJ45.2S,1P,AUDIO	Slim CD	1/1	2/1	or 1
136AT AIO	250	11.8x13.5x3	AT KB, VGA, 2S, 1P	0	1/1	2/1	or 1
168NLX	call	15.25x14.5x3.5	PS2 KB,mouse,VGA,USB,RJ45.2S,1P,AUDIO	1	1/1	2/1	or 1
192LPX	250	12.1x16.5x3.5	PS2 KB, mouse, VGA,2S,1P	1	1/1	2	& 1

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Model	Price	Dimension W.D.H.	MB Size	5.25 Ext./Int.	3.5 Ext./Int.	P.S.
R08	1590	19x22x3.5				
R09	1450	19x16.7x8.6	B	1/0	1/1	250W
R10 B/W/X	245/270	19x18x7	B/ATX	2/0	1/1	250W/250X
R12 B/W/X	305/325	19x19.7x7	B/ATX	4/0	1/0	250W/250X
R13 B/W/X	260/280	19x18x7	B/ATX	2/0	1/2	250W/250X
R14 B/W/X	290/320	19x21x7	B/ATX	3/0	0/2	250W/250X
R16/X	280/300	19x18x7	B/ATX	3/0	1/2	250W/250X
R19B/W/X/RX	825/1050	19x20x12.5	ATX	4/0	2/4	400X/400RX
R20B/W	335	19x15.7x7		8/0		300W
R21B/W	335	19x18x7		8/0		300W
R22X/RX/B/X	670/1075	19x23.3x10.5	ATX	8/0	1/0	300X/300RX
RSP	25	5.8x9.3x1.6			1	
RSM146/B	85/90	5.8x9.3x1.6			1	
001B	80	10x11.5x3		1/0		60W
001B3	80	6.7x9.8x2.4			1/0	50W
001B5	65	8.3x10.6x2.8		1/0		50W
002B	95	6.9x14.6x5.8		2/0		60W
002B1	85	7.5x11.2x6.5		2/0		80W
004B	120	6.8x15.3x9.3		4/0		230W
004B1	105	7.5x17.3x10.2		4/0		200W
007B	210	7x15.8x13		7/0		250W
008B	280	8.4x20.2x18.3		8/0		300W
008B1	180	7.5x17.9x17.1		8/0		250W
010B	375/450	10x19.5x24		10		300W/400W
105LPX/NLX	340/460 II	12.4x14.5x3.4	LPX	1/0	1/1	85W
108NLX bare	310/410 II	11x13.6x3.4	NLX	1/0	1/1	135W
128 bare	180	14.8x16.5x4.75	LPX	1/0	1/2	150W
136/I	85/96	11.8x13.5x3	AIO	0/0	1/1	80W
168	90	15.25x14.5x3.5	NLX	1/0	1/1	145W
192	90	13.1x16.5x3.5	LPX	1/0	1/1	150W
222	85	16.5x16.3x6.4	ATX	3/0	1/2	230X
224	85	17.4x18.8x6.1	ATX	3/0	2/2	230X
225	65	14.8x17.3x5.3	M.ATX	2/0	1/2	150X
232	65	14.3x16.5x7	F	3/0	1/1	230W
236X	85	17.5x17.8x6	ATX	2/1	2/1	230X
254	85	17x16.3x6.3	B	3/0	2/2	250W
267	85	16.8x16.8x6.2	ATX	2/0	2/1	250X
271	90	17.3x15.9x5.5	ATX	2/0	1/1	250XB
288	85	16.9x17x6	ATX	3/0	2/1	230X
306	93	8.2x19.8x18.4	ATX	3/0	1/5	250X
308	93	8.2x19.8x18.4	ATX	3/0	1/5	250X
318	85	8.5x18.3x15.7	ATX	3/0	2/1	230X
322	85	7.5x16.8x16.5	ATX	3/0	1/2	230X
327	72	7.5x16.5x17.3	ATX	3/0	2/2	230X
328	85	7.5x17.6x16.7	ATX	3/0	2/1	230X
329	85	7.5x16.8x16.5	ATX	3/0	2/1	230X
332	55	7x16.3x14.3	B	3/0	2/1	230W
338	55	7x14.6x13.8	M. ATX	2/0	2/1	145W
346	90	7.9x17.4x17.2	ATX	3/0	1/2	230X
354	100	7x16.5x15.3	B	3/0	2/3	250W
355	100	9.5x16.6x15.2	ATX	3/0	2/1	230X
358	90	9.5x16.6x16	ATX	3/0	1/3	230X
359	90	7.05x16.8x16.9	ATX	3/0	1/3	230X
368	90	7.8x16.5x15.1	ATX	3/0	2/2	250X
370	95	8.3x17.3x16.1	ATX	3/0	2/2	250WB
371	95	8.1x17.2x16.25	ATX	3/0	1/3	250XB
377	87	8.5x18.5x15.5	ATX	3/0	1/2	250X
382	95	7.9x16.7x16.3	ATX	3/0	2/1	250X
383	90	8.3x16.8x16.1	ATX	3/0	1/3	230X
401X	115	8.5x17.3x18	ATX	2/0	2/2	250X
418	85	7.5x16.8x19.3	ATX	3/0	3/1	230X
423	70	7.7x16.6x18.1	B	4/0	1/4	250W
424	73	7.5x18.9x16.7	ATX	4/0	2/1	250X
426B/W	85	7.5x17.5x19.3	ATX	3/0	2/2	250X
436	75/95	8.6x18x15.6	ATX	3/0	2/2	250/300X
446	95	6.8x17.1x19.1	ATX	3/0	1/3	250X
453B/W/X	105	8.5x17.5x18.5	ATX	4/0	1/4	250X
455	110	8.5x17.5x18.6	ATX	4/0	2/3	250X
456	95	7.5x17.8x17	ATX	3/0	2/3	250X
465	**195**	9.3x17x17.2	XEON/ATX	2/0	2/2	300x
466	90	7.4x18.7x16.8	ATX	3/0	2/3	250X
468	95/115	7.5x16.7x18.8	ATX	3/0	2/4	250X/300X
470	110	8.3x17.3x21.3	ATX	4/1	1/2	250XB
477	105	8.5x17.5x18.6	ATX	4/0	1/4	250X
483	90	8.3x18.8x17.3	ATX	4/0	1/3	250WX
486	85	9.6x19.5x17	ATX	4/0	2/1	250WX
488	85	7.75x16.7x19.1	ATX	3/0	2/2	250X
501	200	8.25x17.2x23.8	ATX	4/0	2/4	300X
503R/RX/B/P	560/565	14.8x20.4x18.4	F/ATX	8/0	2/4	300R/RX
503/X/B/P	340/345	14.8x20.4x18.4	F/ATX	8/0	2/4	300W/300X
505/X	585/590	14.6x23x26.8	F/ATX	12/0	1/8	300W/WX
505R/RX	**785/790**	14.6x23x26.8	F/ATX	12/0	1/8	300R/RX
506X/RX	170/530	7.8x16.5x24.4	ATX	6/0	2/2	300X/300RX
517	85	8x16.4x24.8	F	5/1	2/1	250W
518	115/140	7.5x16.6x24.4	ATX	6/0	3/1	230X/300X
526B/W	120/140	7.5x17.5x24.5	ATX	6/0	1/4	250X/300X
528	120/140	7.5x16.5x24.8	ATX	6/0	1/5	250X/300X
529	120/140	7.5x16.8x24.4	ATX	6/0	1/5	250X/300X
536X	93/113	7.8x17x24	ATX	5/0	1/5	250X/300X
541X	108/128	7.5x16.6x25.2	ATX	6/0	1/5	250X/300X
555B/W/R	470/740	11x19.3x23.6	F	4/8	0/0	400W/300R
555X/RX	440/800	11x19.3x23.6	ATX	4/8	0/0	300X/300RX
558/B/W/R	170/500	8.7x17.8x26.8	F	5/3	2/0	300W/300R
558X/RX	180/530	8.7x17.8x26.8	ATX	5/3	2/0	300X/300RX
561	85/105	7.5x16.8x24.7	ATX	6/0	2/2	250X
563/RB/W	170/500	8.7x17.9x26.8	F	10/0		300W/300R
563X/RB/W	180/530	8.7x17.9x26.8	ATX	10/0		300X/300RX
565	235	9.25x18.3x21.2	XEON/ATX	4/0	2/4	300X
568	120/140	7.5x17x22.8	ATX	5/0	2/4	250X/300X
569/X/B/W	230/250	13.5x17.8x14	B/ATX	4/2	0/8	300W/300X
570X/RX	160/530	8.3x17.3x26.4	ATX	7/1	1/2	300X/300RX
576X	125/145	7.5x17.9x24.4	ATX	5/1	2/2	250X/300X
582	120/140	7.8x16.5x23.2	ATX	5/0	1/7	250X/300X
588	120/140	7.8x16.5x23.3	ATX	5/0	1/3	250X/300X
1400R/RX	870/990	16x20x24	F/ATX	14/0		300RX
1620R/RX	1070/1190	16.5x20.3x34.3	F/ATXx2	16/0		300RX

The Easy PC

Intel and Microsoft set out to simplify the computing experience. But don't expect sweeping changes in the short term.

by Jon Halpin

Although it may not be immediately apparent when you buy and set up a new PC, Intel, Microsoft, and other vendors do consider the user experience when designing their products. But as the PC platform has evolved, it's adopted and adapted to many different features that make it difficult to use. The accumulation of new buses, ports, slots, and advanced technologies has had an adverse effect on overall usability. Unfortunately, it's become a glaring problem as consumer interest in PC use is on the upswing.

Ease of use and simplicity are top concerns for home users in particular, since they approach technology differently than do corporate users. They use their PCs under different circumstances as well. Home users do not have access to onsite IT help, and unlike hobbyists, they want PCs to help them save time, not to occupy all of it.

In response to the problem, Intel and Microsoft are spearheading the Easy PC Initiative, a formal industry-wide effort to improve the usability and design of the Wintel platform. As an updated extension to last year's PC 98 initiative, this effort is not new and is a multiyear plan. The work that began last year also focused on making the PC easier by integrating USB, Device Bay, and Instantly Available/OnNow—goals that appear again in the Easy PC Initiative.

However, because undoing years of legacy technology and integrating new technology requires the commitment of vendors across the entire PC industry, change has been slow. It is not the fault of Intel, Microsoft, or any one vendor in particular that we have not seen progress, and it will no doubt be a long-term process before we see dramatic change. For example, we've only just begun to see USB, a technology that has been around for years, appear in products in the past 12 months.

Nonetheless, the Easy PC Initiative has garnered the support of many companies, including Compaq, Dell, Fujitsu, Gateway, Hewlett-Packard, IBM, Micron, NEC, and Toshiba. All the companies hope to have new PC prototypes that incorporate the target technologies by the end of this year.

For 1999 and 2000, the Easy PC Initiative goals include the following: simplified setup, including USB and Instantly Available/OnNow; removal of legacy technologies like ISA; and proliferation of innovative design based on specs like FlexATX motherboards.

OUT OF THE BOX

Stephen Walley, initiative manager at Intel, defines ease of use as simple purchase, simple setup, simple operation, simple expansion, and simply reliable.

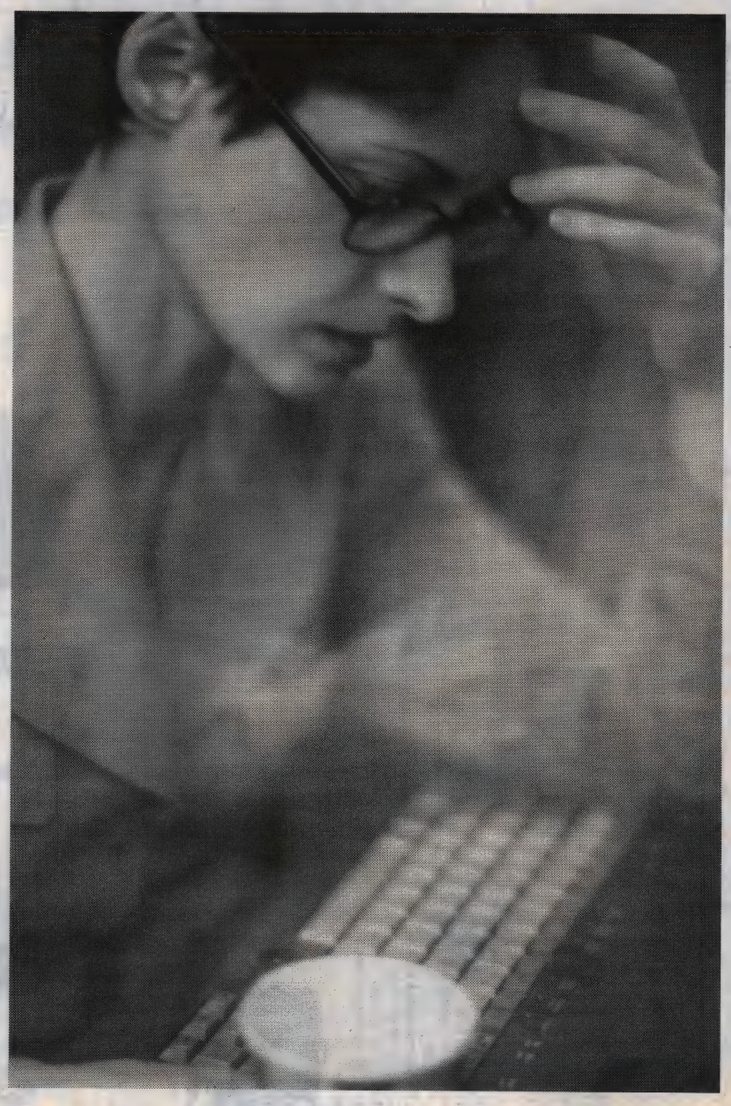
Toward that end, you can look for PCs configured for immediate connectivity and simplified cable hookups in 2000, via technology such as USB, Microsoft's Universal Plug and Play, and Windows 98 Second Edition. The last is due out this fall. Going further, vendors like Compaq and Dell are considering shipping PCs that can be instantly configured through a single phone call.

Easier setup, operation, and expansion are well-addressed through technologies like USB, which, once widely adopted, will go a long way toward improving the experience and removing older technology like ISA.

But despite the existence of USB and even PCI, the ISA bus remains. Intel is currently studying ways to remove ISA and some I/O functions to save on manufacturing and support costs, while improving performance and reliability. The elimination of ISA will enable more robust PCs, as it rids systems of asynchronous bus design, high pin counts, and long latency.

Despite the relatively slow adoption, it is important to understand how significant USB is to the simplification process. With ISA hardware, each added device requires its own hardware interrupt request (IRQ); there are only 16 IRQs, and even fewer are available once you are ready to add a device. PCI is a little better, as it lets you share IRQs, but it is difficult to troubleshoot if something goes wrong, and it certainly doesn't make for easy setup or operation.

Because USB ports require only one IRQ regardless of the number of devices you use, USB is a superior technology. USB peripherals simply connect to the USB ports located on your computer or notebook, and virtually all PCs and notebooks bought in the last year come with at least one USB port. You can also find powered USB hubs that can accommodate four



PHOTOGRAPH BY BUTCH MARTIN, INC./TONY STONE IMAGES

USB devices at a time, with the side benefit of easing the power demands on your system.

Another great advantage of USB is the ability to easily swap equipment between computers, thereby creating a pseudo network in which you can share printers and scanners, for example. It also lets you share printers with Macintosh systems.

Currently, Windows 98 is the only Microsoft OS to support USB, but Windows 2000, when it ships, will also support it. Linux also supports USB.

Because USB connects much more than just computers and peripherals, it lends itself well to supporting advanced computing applications, like digital imaging, photography, videoconferencing, and PC telephony. Of late, plenty of USB products are available, including modems, keyboards, mice, scanners, cameras, and printers. (For a list of companies and their USB products, visit *www.usb.org.*) In the coming months, we will likely see even more USB products and more information on the forthcoming USB2 specification.

Intel's legacy-removal road map also calls for "the gradual elimination of other technologies, including PS/2 connectors, serial ports, parallel ports, floppy drives, and eventually all user-accessible slots."

SAY GOODBYE TO THE BOOTUP

Up next is Instantly Available/OnNow. Instantly Available makes PCs easier to use by applying the "ready-when-you-are" model used by home appliances to the PC platform. The benefits of Instantly Available are twofold: reducing lengthy bootup time and reducing power consumption. Rather than turn off completely, computers fall into a deep-sleep state but spring to life almost instantaneously upon activity.

While in its sleep state, your PC retains enough power to respond to external events, such as a phone call or a backup procedure. And when you return to the PC, with the press of a key the PC is active in a matter of seconds. Because the PC saves and restores system contents from RAM, it can be ready when the user or event needs it—virtually eliminating bootup time. Plus, connections will remain intact.

Power consumption is of particular concern now that PCs handle the tasks of many devices— for instance, answering phone calls, acting as a fax machine, and hosting connections to other PCs and the Internet. Of course, to carry out these tasks 24 hours a day, your PC has to be always on—a serious energy drain. Instantly Available will help vendors deliver PCs that exceed all current power-management requirements.

Much of the Instantly Available technology comes in response to forthcoming global regulatory requirements. Governments worldwide have been studying ways to reduce the emission of gases that contribute to global warming and to reduce the energy consumption of electrical devices. One answer is to introduce new regulations or tighten existing ones that relate to power consumption. System designers need to ensure that their products can still be shipped overseas as regulatory issues change.

Current power management relies on Advanced Power Management (APM), which lowers consumption to an acceptable level when a PC is not in use. However, APM has not been able to keep up with new features of PCs, and therefore does not meet new power requirements. What's more, users view it as a distraction. For example, sometimes when APM is activated, the PC fails to respond to external events, such as an incoming LAN packet or phone call, and other times, it may drop connections.

In February, Intel announced its Suspend to RAM (STR) solution, an implementation of the Advanced Configuration and Power Interface (ACPI) 1.0 specification and Instantly Available PC design guidelines. The ACPI specification defines the S3 sleep state, in which a PC's power consumption drops to the lowest possible level while the system context is maintained in RAM.

STR lets a PC achieve the S3 state during idle periods, then quickly "wake up" and regain its fully operational state in response to direct user commands, programmed events such as backup procedures, or external events such as telephone calls and network alerts.

Because USB connects much more than just computers, it's well-suited to advanced computing applications, like digital imaging, photography, videoconferencing, and PC telephony.

To function, Instantly Available PC features must have access to an ACPI-enabled operating system such as Windows 98 or the Windows 2000 family. Intel's STR solution is being implemented on Intel motherboards that support Celeron, Pentium II, and Pentium III processors.

THE CONCEPT PLATFORM

Probably the trickiest goal, and the one that will take the longest to reach, is advancing PC design. Reducing the amount of legacy technology can make systems more reliable and easier to use, but more interesting is the goal to offer improved style.

As the PC begins to take its place more prominently in the household—living room, bedroom, kitchen, and so on—design takes on greater importance. Beige boxes that consume large amounts of space aren't going to cut it in many homes. The challenge under the Easy PC Initiative is to get developers to stop thinking about PC design as engineers, but rather to think as consumers.

To really deliver, particularly in the area of creating smaller PCs, the development of new form factors is essential. FlexATX, for example, is a new motherboard form-factor specification that can let manufacturers design smaller PCs—for reduced cost, better ease of use, and space-constrained applications.

The FlexATX 1.0 specification, an extension of the microATX spec, increases design flexibility by enhancing usable system and motherboard space, and by improving the size and location of component placement zones on the motherboard. FlexATX can reduce motherboard size by as much as 25 percent from microATX designs, and it encompasses motherboard size and hole-mounting locations, power-supply requirements, maximum component heights, and rear I/O shield opening features and dimensions.

FlexATX is not intended to replace ATX or microATX, which both will be used in designs that require more I/O slots and peripheral bays. According to Intel, FlexATX should be viewed as the "preferred specification" for low-cost and small-size designs. Note that FlexATX is compatible with ATX and microATX. Also according to Intel, we can expect several announcements of products that use the FlexATX spec in the second half of the year.

Along with the FlexATX specification, Intel has released the Form Factor Roadmap for Desktop Systems for 1999 and beyond, showing design flexibility for PC form, configuration, and pricing. (For more information, go to *www.intel.com.*) With the emergence of new form factors such as FlexATX, there is at least a foundation for more innovative design.

Will the Easy PC Initiative be the cure-all for consumers' computer woes? Probably not, particularly in the short term. But the technologies and guidelines set forth by the initiative are a step in the right direction. Hopefully, in the not-so-distant future, we will see true user-friendly and environment-friendly PCs with smaller footprints, intriguing designs, and improved functionality—a result that, for now, does remain the "concept" PC. ▼

ACTIVE LINKS

www.microsoft.com/hwdev ..... *PC Design Guide details*
developer.intel.com/technology/easeofuse/index.htm ..... *Details on the Easy PC Initiative*

Alfred Poor's Computer Cures

by Alfred Poor

How do you get a leopard out of a tree? Very carefully! This advice holds for deleting seemingly orphaned files. Frankly, I don't know which ones you can delete safely. If you want to get rid of them, you should start by renaming the suspect files—keep a record of what the old and new names are—and if everything runs smoothly for a while, then you can probably delete them. If you want an extra measure of safety, archive them on a floppy disk.

The problem might have been avoided by uninstalling IE4 before installing IE5, but even that might not have removed all the orphaned files. I can also suggest an untidy but defensible alternative solution: Do nothing. Hard drive space is so cheap these days that it's hardly worth the time chasing down a few megabytes—or even tens of megabytes—of orphaned files. Given the undesirable consequences of deleting a file required by an application you still use, it may not be worth the risk to try to recover the storage.

MAKE IT GO AWAY!

Dear Alfred:

I recently installed Microsoft Internet Explorer 5. When I finished, there were still some files left behind from the prior installation of Internet Explorer 4. Is it safe to delete the leftover IE 4 files, or are any of them required by IE 5? What is the safest and most efficient way for me to delete these files?

Lawrence Li

STOP THE STATIC

Dear Alfred:

I'm getting static through the speakers on my computer system. When I move the mouse, the noise changes with the movement. Is there any way to ground the sound card or filter out this annoying buzzing?

Dave Nagle

The fact that the sound changes as the mouse is moved indicates that something in the computer is generating a signal that is being picked up and amplified somewhere in the sound subsystem. You can take a number of steps to try to reduce or eliminate the problem.

Use a higher-quality speaker cable that may provide better shielding. Reroute the speaker cables behind your computer to keep them away from data cables. Turn up the volume on your sound card so the signal is stronger—the interference signal may be weak, yet is being amplified when the signal gets to the speakers. Move the sound card to a different slot in the computer; it may be picking up interference from an adjacent card. As a general rule, I try to put my sound card in the left-most slot and leave an empty slot beside it if possible.

STOP CRASHES WITH RAM?

Dear Alfred:

My computer has been freezing and crashing with unacceptable frequency these days. Recently, I've installed a number of programs that run in the background and sit in the system tray (a fax program, a few Internet utilities, and the like). I occasionally get the message that my user resources are too low, and from what I understand, neither more CPU power nor more memory will resolve the problem. All the same, is it possible that more memory might help with my other crashes and freezes? I currently have 64MB installed.

Hyde Russell

More memory may not solve the problem, but it certainly won't make it worse. There is an excellent chance that it will make things better. If you notice that you're getting a lot of drive activity—especially when you switch from one program to another—then it is possible that lack of memory may be playing a part in your crashes. I'd start with at least another 32MB to see if that helps. You might also want to cut down on some of those background programs and load them when you actually need them.

RANDOM RESETS

Dear Alfred:

Without fail, my computer resets automatically when I log on to the Internet. It resets after it has been on for awhile. I suspect a hardware problem because there are no page-fault or other error messages, but I don't know where the problem lies. Heat may be the cause, but my motherboard reports that the temperature never rises above 100° F.

Tafari Higgs

I'd agree that heat is the most likely culprit. While 100° F may be low enough for most components in your system, it's likely that some may be running much hotter than that, which in turn results in your random resets. The most likely candidate is the CPU, but anything from the memory to the I/O chips can play a role.

Try running the system with the case open as a test. If the problem goes away or is less frequent, you might put on a better CPU cooler or install extra fans. ▼

ILLUSTRATION BY NIKOLAI PUNIN

Alfred Poor's TIP OF THE MONTH

HIGH-TECH CHOPSTICKS

Ever have a loose cable connection on one of your ports? If it uses a D-connector with pins, here's a tip that might get you back to a solid connection.

Dear Alfred:

A loose connection on my serial-mouse cable was giving me fits. I adapted a suggestion that I read on the ZDNet Computer Cures online forum to solve my problem. I carved the tip of a wooden chopstick to make an insulated probe/screwdriver. I then used this to lightly "spread" the pins on the connector, which held the cable more securely and eliminated the mouse problems.

Brian Hall



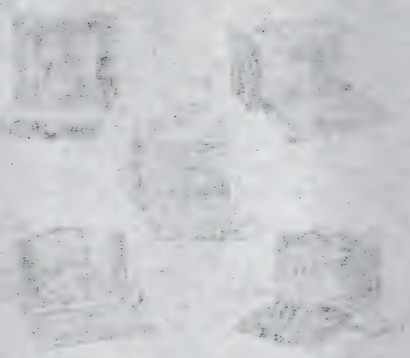
This is an excellent tip, and it's free if you get take-out Chinese! The one warning I'd add is that these connector pins can be fragile, so avoid bending them too much. Also, if you bend them too far, the connector won't fit over them, and you run the risk of mashing the bent pin when you try to plug in the cable. There's a real chance that the pin will break off—ruining the connector—when you then try to straighten it. Spread the pins slightly, but use care.

Do you have a tip you'd like to share? Each month, we print the best reader-submitted tip. If yours is chosen, you will receive a *Computer Shopper* T-shirt plus a bonus *Computer Shopper* disk or other surprise premium you can't buy anywhere. And if your tip isn't chosen as the Tip of the Month, we still might use it as a tip in the column; no T-shirt, but you'll get credit for the submission in print.

So write it up and send it in! If you post in on ZDNet, please start the subject with the word "TIP." Send your questions and tips to:

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WIDE SCSI REMOVABLE RACK w/ FAN	85	HDD/FDD MOUNTING KIT	5/10

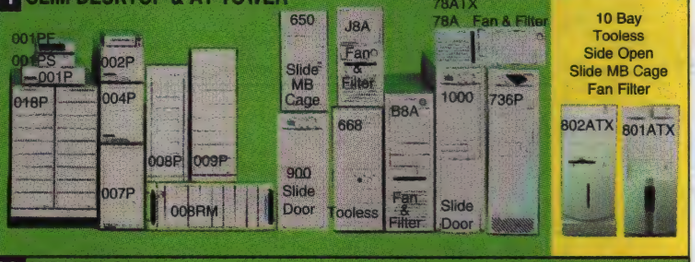
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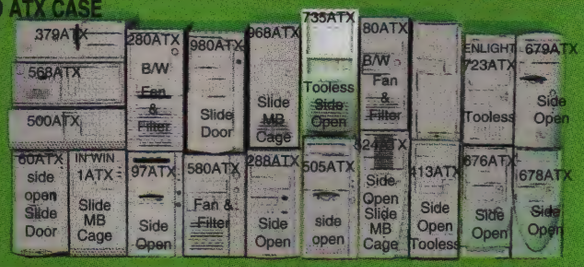
Model	BareBone Price	Dimension W.D.H(inch)	5.25" Ext./Int.	3.5" Ext./Int.	Slot PCI / ISA	Motherboard I/O PORTS
6204NLX 6208NLX	$495 $370	11.2x13.6x3.35 12.4X14.5X3.4	W/Slim CD & FDD 1/0	 1/1	2PCI or 1PCI 1ISA	PS2 Kb&Ms,Speaker/LineIn/Mic, Joystick/Midi, 1P.2S, VGA, USB, RJ45LAN, Audio / PS
C2001PC	$310	15.4x16.3x3.45	1/0	1/1	2PCI or 1PCI 1SA	Sound + Audio in/out + Video in/out + Mic (Upg to AMD K6-2 450MHZ) / PS
C978NLX	$315 PII add $60	11X13.6X3.35	1Slim CD	1/1	1PCI 1ISA or 2PCI	2S, 1P, Floppy, USB, RJ-45, PS/2 Mouse, PS/2 Keyboard, VGA, Audio, Game, IR / PS
C201PC	$479	12X12X2	3.5"x1	2.5"x1	1PCI w/10-100LAN	Sound + Audio in/out + Video in/out + LAN 10-100 + USB x2 + Mic, IR (AMD K63) / PS
C6207LPX	$350 Socket 370	12.4X14.5X3.4	1/0	1/1	2PCI or 1PCI 1ISA	PS2 Kb&Ms,Speaker/LineIn/Mic, Joystick/Midi, 1P.2S, VGA, USB, RJ45LAN, Audio / PS

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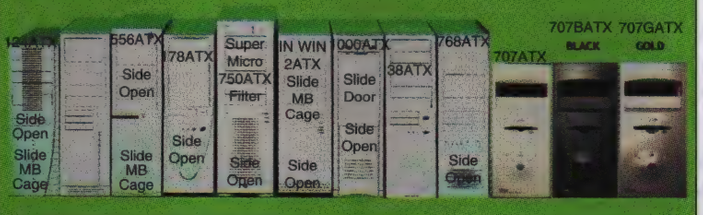
P1 SLIM DESKTOP & AT TOWER



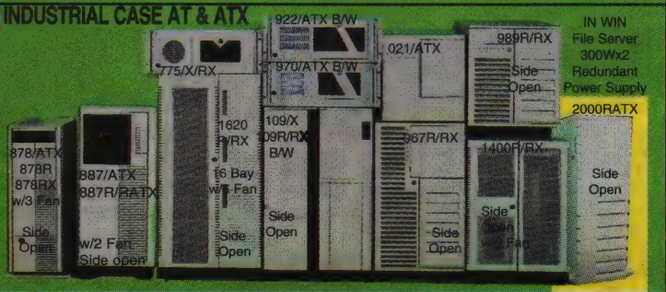
P2 MID ATX CASE



P3 AT/ATX FULL & FILESERVER CASE



P4 INDUSTRIAL CASE AT & ATX



Model	Price	Dimension W.D.H.		MB Size	5.25 Ext./Int.	3.5 Ext./Int.	Watt P.S.
P1 EXTERNAL SCSI CASE							
001PF	$85	8.5x10x2		-	-	1/0	40
001PS	$85	8.5x10x2		-	-	0/1	40
001P	$80	9.9x11.5x2.8		-	1/0	-	40
002P	$99	6.9x14.6x5.8		-	2/0	-	60
004P	$123	6.8X15.3X9.3		-	4/0	-	230
007P	$210	7x15.8x13		-	7/0	-	250
008P	$285	7x19x15.8		-	8/0	-	300
009P	$320	6.7x15.7x18.7		-	9/0	-	300
008RM	$365	19x18x7		-	8/0	-	300
018P	$610	18.5x24.8x23.5		-	18/0	-	2X300
650	$92	7.1x16.6x15	B	3/0	2/3		300
P2 ATX MIDTOWER							
379ATX	$87	16.6x16.6x6.4	ATX	3/0	1/2		230
568ATX	$99	16.5x16.6x6.8	ATX	3/0	2/1		230
500ATX	$91	17.5x18x6.3	ATX	2/1	2/1		230
60ATX	$89	8.5x19.7x15.6	ATX	3/0	1/2		230
1ATX	$75/99	8.7x16.8x15.7	ATX	3/0	2/2		230/300
280ATX	$115	8.5x17.9x18.5	ATX	4/0	2/3		250
97ATX	$105	8.3x17x15.5	ATX	3/0	1/3		230
980ATX	$109	8.5x17.3x18.5	ATX	4/0	1/4		250
580ATX	$100	9.5x16.5x15	ATX	3/0	2/1		230
968ATX	$89	7.5x16.8x19.3	ATX	3/0	3/1		230
288ATX	$80	8.3x17x16	ATX	3/0	2/1		250
P3 FULL & FILE SERVER CASE							
124ATX	$122/142	7.5x16.7x22.8	X	5/0	2/4		250/300
556ATX	$125/145	7.5x16.8x25	X	6/0	1/5		250/300
178ATX	$120/140	7.5x16.5x24.8	X	6/0	1/5		250/300
750ATX	$163	8.3x17.3x26.4	X	6/0	1/3		300
2ATX	$99/$125	7.9x17.1x23.6	X	5/0	1/5		230/300
1000ATX	$128/148	7.9x17.3x24.5	X	5/1	2/2		250/300
P4 INDUSTRIAL CASE							
878/X	$410/$425	8.1x19.1x25.8	F/X	9/2	0/0		300
878R/RX	$760	8.1x19.1x25.8	F/X	9/2	0/0		R300
887	$480	11x19.8x24	B/F	4/8	0/0		400
887ATX	$446	11x19.8x24	X	4/8	0/0		300
887R/RX	$750/$800	11x19.8x24	F/X	4/8	0/0		R300
775X/RX	$320/$600	19x20x7	B/X	2/0	1/2		250/250R
922/X	$248/$272	19x18x7	B/X	2/0	1/1		250
1620R/RX	$1072/$1192	16.8x20.5x34.3	(F/X)x2	16/0	0/0		R300
970X	$290/$310	19x18x7	B/X	3/0	1/2		250
109X	$176/$188	8.7x17.8x26.8	F/X	10/0	0/0		300
109R/RX	$510/$540	8.7x17.8x26.8	B/F	10/0	0/0		R300
021X	$240/$250	13.5x17.8x14	B/X	4/2	0/8		300
967/X	$588/$98	14.8x23.5x24.6	F/X	12/0	1/8		300

Model	Price	Dimension W.D.H.		MB Size	5.25 Ext./Int.	3.5 Ext./Int.	Watt P.S.
AT DESKTOP &TOWER CASE							
900	$100	7.9x16.2x17.7	B	3/1	1/5		250
J8A	$100	7.1x16.3x15.2	B	3/0	2/3		250
668	$105	7.8x16.9x18.3	B	4/0	1/4		250
B8A	$110	7.5x16.4x20.7	B	5/0	2/5		250
78A	$86	16.9x16.3x6.2	B	3/0	2/2		250
78ATX	$100	17.9x18.9x6.4	ATX	3/0	2/2		250
1000	$125	7.5x16.5x24.5	B/F	5/1	2/6		250
736P	$99	8.1x16.3x24.8	B/F	5/1	2/1		250
802ATX	$95	7.7x19.8x17.9	ATX	3/0	2/5		250
801ATX	$95	7.7x19.8x17.9	ATX	3/0	2/5		250
735ATX	$74	7.5x17.5x17	ATX	3/0	2/2		250
505ATX	$99	8.3x17x17.6	ATX	4/0	1/3		250
80ATX	$120	7.3x16.5x17.1	ATX	3/0	2/4		250
524ATX	$96/116	7.5x16.7x18.8	ATX	3/0	2/4		250/300
413ATX	$95	7.3x16.6x17.5	ATX	3/0	2/2		250
723ATX	$78	7.4x18.4x16.9	ATX	4/0	2/1		250
676ATX	$87	7.5x16.7x16.6	ATX	3/0	2/1		230
679ATX	$87	7.8x17x16.5	ATX	3/0	2/1		230
678ATX	$87	7.5x17.6x16.7	ATX	3/0	2/1		230
38ATX	$92/112	7.5x16.8x24.6	X	6/0	2/1		250/300
768ATX	$119/145	7.5x16.3x24.3	X	6/0	3/1		230/300
Midtower							
707ATX	$85	7.7x19.8x18	X	3/0	2/2		250
707BATX	$85	7.7x19.8x18	X	3/0	2/2		250
707GATX	$85	7.7x19.8x18	X	3/0	2/2		250
967R/RX	$790/$800	14.8x23.5x24.6	F/X	12/0	1/8		R300
989/X	$350/$350	14.8x21.0x16.3	F/X	8/0	2/4		300
989R/RX	$565/$575	14.8x21.0x16.3	F/X	8/0	2/4		R300
1400R/RX	$875/$995	16.3x20.5x23.8	F/X	14/0	0/0		R300
2000RATX	$255	8x21x27.5	X	5/0	1/5		R300

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TRENDS

Body Doubles for Virtual Shopping

Digital dressing rooms can take the guesswork out of Web shopping for apparel.

In the 1995 movie *Clueless,* high-schooler Cher Horowitz tries on just about every item in her closet each morning—using her PC. At the time the movie was made, this type of software existed only in an imaginary techno-glitzy Beverly Hills. But not anymore. New technologies are making it possible for wired shoppers to create a virtual model that mirrors their size and shape, and lets them preview how clothes will fit and look before they click the Buy button.

Shopping via catalog and the Internet has always had indisputable advantages over trudging to brick-and-mortar stores. But it's hardly ever WYSIWYG. To address this issue, **Dr. Louise Guay,** president of Public Technologies Multimedia, developed virtual-model technology, which lets users generate female models and then "try on" outfits. Several merchant Web sites now use the software, which may soon help give apparel shoppers greater confidence in online buying and may boost sales, particularly among women.

"Women are more reluctant to buy something without trying it on," says Elaine Chen, an analyst with **Xceed Intelligence,** a market-research firm in New York. "And for women, clothing is one of the top five things they're willing to buy online." This is significant because women have become a major online buying presence. They now comprise 50 percent of all Web shoppers, and Chen says AOL reported that apparel was its second-most-popular shopping category last holiday season.



Virtual-model technology provides online shoppers with their own PC dressing room.

Lands' End's Web site *(www.landsend.com)* was the first U.S. company to use this new technology when it debuted "Your Personal Model" last holiday season. To create the model, all you need do is answer a series of questions regarding your approximate height, body shape, and hair color. The Web site then creates a leotard-suited virtual you, which you can clothe in available garments.

Since it went online in November, the site has had more than 100,000 shoppers building models—including men buying gifts for the women in their lives. Apparently, the site has struck a chord among shoppers: The company says it has received hundreds of e-mail messages a day thanking them for the service. And according to a Lands' End spokesperson, customer feedback is taken very seriously. So if the demand is there, the site will eventually include virtual male models.

JCPenney's Web site *(www.jcpenney.com)* has also adopted the virtual model. Called Just 4 Me, it lets women build a model based not only on body type, but on face shape, skin tone, and hairstyle. The Just 4 Me model is three-dimensional and can be rotated so that you can see how she looks from different angles. Currently, the service targets plus-size women, but JCPenney plans to include models that can "wear" the full range of its women's product line.

This fall will bring an even more sophisticated virtual model. The $49.95 ***Cosmopolitan* Fashion Makeover Deluxe** is a sequel to **Broderbund Software's** popular ***Cosmopolitan* Virtual Makeover.** This second collaboration between Broderbund and ***Cosmopolitan* magazine** lets you input an exhaustive list of characteristics and exact measurements that includes height, weight, bust, torso, hips, shoulders, and even arm length. The program then builds you a to-scale 3-D body double. You can even scan in a picture of your own head or import one from the Virtual Makeover and place it atop your virtual body. Initially, Fashion Makeover will be for women only, but Broderbund says it would consider making it co-ed if there is sufficient demand.

Now you're ready to cruise for that hot new outfit or just play dress up. Broderbund has plans to include a wide selection of designer collections on the CD. (At press time, Broderbund had not yet released a list of participating vendors.) The appropriate sizing systems for each manufacturer will be programmed into the software, letting shoppers get a truly accurate fit. Through Fashion Makeover's Web site, you will be able to order these clothes online. So for only $50—the price of the software—you'll have your own personal shopper, a luxury that usually only the wealthiest can afford.

Sooner or later, full body scanners, which are currently used in movies and the military, will make it to the retail market and might even become consumer appliances. But until then, test-driving clothes by virtual model is the best bet for the best fit. ***—Sharah Thomas***

ACTIVE LINKS

www.bsf.ca/expression/856_2.htm . . . *Les Boutiques San Francisco; uses virtual-model technology (French only)*
www.ptm.ca/mvm . . . . . *Public Technologies Multimedia; the technology behind virtual models*

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NEWSBITS

CREATURE COMFORTS

The Norns are back and cuter than ever in **Mindscape Entertainment's Creatures 3.** If you enjoyed creating and maintaining a society of Creatures, you know that Tamagotchi never had a thing on these delightful virtual pets. In this $39.95 prequel to the previous Creatures games, you'll find out the origins of your favorite virtual life forms and defend them against all manner of wicked Grendels.



Creatures 3

PERSONALIZED BROWSING

Just when you thought the browser wars were over, along comes **NeoPlanet.** This new browser combines the Web services of **Lycos** with NeoPlanet's Web-browsing/portal features. NeoPlanet's interface lets users tailor an online environment to suit their tastes. It also boasts integrated e-mail service and RealNames navigation, and supports the same Web standards as the two major browsers. Of course, it's free. ▼

THE ART OF ILLUSTRATION

These four vector-drawing programs offer you a level of precision, sophistication, and control that you just can't get from image editors.

BY SUSAN GLINERT

No matter how smart and sophisticated bitmap-editing programs have become in recent years, vector-illustration software is still a vital tool in the electronic studio. Unlike bitmap images, which are composed of individual dots or pixels and don't resize easily or accurately, vector objects are defined by an outline. Plus, they always print at the resolution of the output device, so you never have to worry about losing either detail or precision.

Vector-graphics programs are used extensively for creating business identities and expressive line art, and are the best choice for technical illustration. Printed pieces often include shaped text, bitmap images, or anything that can be produced with freeform lines, geometric shapes, and some imagination. Here we look at four programs—Adobe Illustrator 8, Canvas 6, CorelDraw 9, and FreeHand 8 for Windows—that can bring your artistic vision to life.

COOL TOOLS

Today's vector-illustration programs offer a variety of great tools for creating objects—text, pens, lines, rectangles, and ellipses. Each program supplements the fundamental shapes with extras, such as smart connector lines, spirals, stars, and grids. They also give you the means to edit and combine them, create blended shapes, and arrange objects on pages and in layers.

Once your objects are created, you can fill them with solid colors, gradients, and bitmaps, or use special treatments such as CorelDraw's fractal fills, Canvas's hatches, or the incredible mesh gradients found in CorelDraw and Illustrator. A recent addition to both CorelDraw and Illustrator, the mesh-gradient tool fills an object with an editable two-dimensional grid whose vertices can have a smooth gradient fill applied to them. By moving the points, you alter the color blend, producing smooth multicolored, multidirectional shading. With practice, mesh gradients can create extraordinary, delicate coloration—a previously challenging feat in vector illustration.

Illustration programs are especially smart in handling text. They can wrap text inside and outside of objects, flow text along paths, reshape text paths, fill them, and use them as clipping paths for underlying objects. Each program comes equipped with basic word-processing capability, too, including spell checkers. With the exception of Illustrator, the programs support style sheets for text and objects, so you can save multiple attributes to a single style and apply them to other objects.

The latest trend in vector illustration is the inclusion of both image-editing and Web-centric tools. Canvas, CorelDraw, and Illustrator offer a respectable level of bitmap editing. You can, for example, use special-effect filters directly, without having to process an image in another application. Canvas takes the concept one step further by offering a good selection of bitmap-creation tools, thereby making the integration between vector and bitmap graphics almost seamless. All the programs can attach URLs to objects and output image maps, but Canvas and FreeHand are especially useful to the Internet-oriented designer, as both of these programs generate Web pages and animations without requiring an external application.

ADOBE ILLUSTRATOR 8

Adobe Illustrator has always been considered the "professional" vector-illustration program. Its native PostScript format is the common denominator by which competing packages are judged, especially when the artwork is to be integrated into a publication via a layout program. Unfortunately, at least on the PC side, Illustrator has traditionally lagged behind in both functionality and usability. While version 8 offers many improvements, the program still trails the competition.

Illustrator 8 attempts to address these flaws, first by trying to enhance and simplify the interface, and then

ILLUSTRATION BY RON CHAN

by making it conform to other Adobe products so "family" users can move smoothly among applications. You'll see Photoshop's Navigator palette for zooming and panning, and its Actions palette for recording and replaying keystrokes, as well as PageMaker's Links palette for assigning URLs. Better integration with Photoshop is a definite plus.

Illustrator layers are retained when you rasterize the illustration in Photoshop, and you can link Photoshop images into an Illustrator document instead of simply placing them there. Unfortunately, the interface is not configurable like CorelDraw's and has so many options—15 palettes and a toolbar—that we had to duck and weave to uncover usable screen space.

Adobe has added some effective new features to version 8, the most notable being the mesh-gradient tool. Illustrator's rendition is more difficult to use than CorelDraw's, but with practice, you can create incredibly realistic shading. Our awe at this feature, however, soured a bit when we viewed the output on an older PostScript 2 printer. If you intend to take advantage of Illustrator's mesh gradients, a PostScript 3 printer is a must.

Designers will enjoy the much-enhanced pressure-sensitive Brush tool, which lets you paint with patterns, scattered vector images, and artistic strokes, much like Macromedia's Expression and CorelDraw's new artistic brushes. The new Live Blend tool can handle more than two objects, blend along editable paths, and blend both gradient and compound objects. As with the mesh gradients, however, you'll need a PostScript Level 3 printer to ensure that the blends, as well as the new brushes, print properly.

Several additions make the program easier to use, especially for beginners. Direct object resizing via handles and the multipurpose Free Transform tool remove the need to use separate buttons for each editing task. The responsive Pencil makes it easy to draw and edit freeform paths that can be refined with the Smoother tool.

Another enhancement is the SmartGuide feature. Similar to Canvas's SmartMouse, visual guides appear when you move an object close to a point, a path, or another definable geometric location such as the center of a circle. This feature isn't as configurable as SmartMouse, but it is useful for aligning and snapping objects to each other. Also, we wish Adobe would at least include Hot Door's CADtools plug-in, which supplies dimensioning and scale drawing for more precise illustration tasks.

Despite the improvements and the truly excellent text tools, we wouldn't choose this product for day-to-day production work. Although Illustrator can output image maps, GIF, and JPEG files for use on the Web, there's no provision for HTML, animation, or inclusion of vector graphics on Web pages, such as Canvas's Colada and FreeHand's Flash.

Illustrator also lacks style sheets for text and graphics, making it overly cumbersome to reproduce special effects. The absence of several features—vector transparency, global search and replace, multipage output, 3-D-extrusion or CAD tools, Hexachrome support, and object libraries—might not be an issue if taken one at a time. But add that to the abysmal tracing tool, the anemic swatch libraries, the nonconfigurable interface, and the lack of extensive clip art, and this software program has only lukewarm appeal.

We can recommend Illustrator 8 to traditional, print-based designers—especially those who need precise type control—and users of Illustrator 7 who don't need to switch to more full-bodied applications. For other users, it may be better to check out the competition.

CANVAS 6

Although Deneba Software's Canvas is a robust and feature-rich drawing application, its market share is small compared with the CorelDraw/Illustrator/FreeHand triumvirate. This is a shame, because Canvas offers a superbly integrated set of graphics tools that span the realms of vector drawing, image editing, Web graphics, CAD, and desktop publishing.

The designers of Canvas deserve kudos for the compact, efficient interface, but new users will probably find the lack of Windows-standard buttons and toolbars confusing at first. The primary tools for creating and editing text, objects, vector illustration, dimensions, and bitmaps are packed into a small palette, along

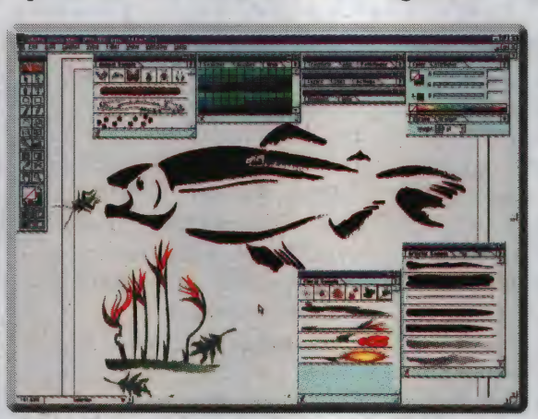


The Art of Illustration

with buttons for setting opacity and color for line and fill.

Most buttons have subpalettes. For example, clicking on the bitmap tool produces a palette of 18 image-editing tools. Each palette can be torn off as a separate toolbar, and minimized to a title bar or parked at the top of the display as a tab that rolls down on demand. We like the ability to configure the workspace to specific tasks, but we wish the company included standard pop-up tooltips instead of using a prompt line at the bottom of the display.

The biggest strength in Canvas is still the broad range of precision-drawing tools. It's the only program here that incorporates useful CAD tools, including a powerful feature for accurate positioning. When you turn on the SmartMouse function, objects will snap to particular points that you specify on other objects, as well as provide visual feedback when you are in range of a constraint, such as the center point of a circle. You can also quickly add associative dimensions, and accurately size and position objects using either numeric values or equations. Technical illustrators will find the new Sprite transparency feature useful for creating cutaway diagrams. You can use any object, such as a photograph or group of ellipses, as a mask or transparency map for another object. For example, you could apply a transparency map to a mask of a tire so that one side shows the layers of materials that compose the finished product. This feature supports transfer modes (multiply, lighten, and so on) to specify how the transparency mask interacts with underlying objects. And Canvas is the only program that lets you paint transparency onto both bitmaps and vectors.



Adobe Illustrator 8 has the best special-effect brushes of any illustration program.

Another particularly creative feature is shaped gradients that follow an object's contour, making it easy to render reasonably realistic shading. This feature can't come close to mesh gradients, however.

PageMaker users will feel especially comfortable with Canvas's implementation of desktop publishing. You can link freeform text blocks, apply both text and object styles, and wrap text around or inside objects.

Canvas also supports master pages and the unique ability to flow text along multiple paths. You would not want to use Canvas to lay out long technical documents, but the feature set is respectable for shorter pieces, such as brochures and product packaging.

We wouldn't want to use Canvas as our only image editor, either; it lacks the fine control you find in stand-alone applications. However, we were able to make selections, apply filters, edit channels, and use the brushes and the cloning tools to do surprisingly sophisticated touchup. A big plus is the ability to scan, trace, and edit bitmaps in the same environment in which you are doing your layout and illustration.

Canvas's Colada tools let you publish documents as Web pages and create Java-based buttons, presentations, and animations—complete with hyperlinks, attached sound bites, and rollover buttons. We were especially impressed with the ability to build

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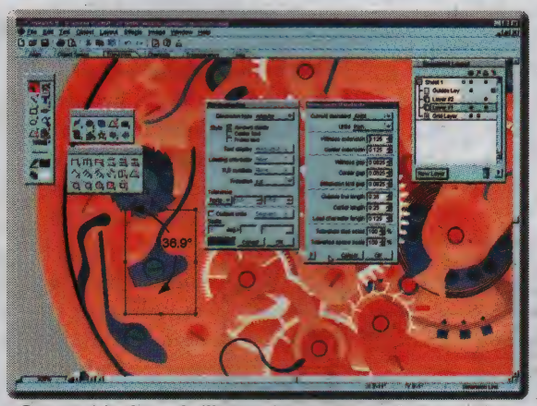
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Canvas 6 is the only illustration program that contains a robust set of technical-drawing tools.

complex pages that incorporate text, vector illustration, animations, and images without a browser plug-in. It can also accommodate browsers that aren't state-of-the-art, so you can save pages as GIF or JPEG images instead.

We give Canvas high marks for versatility; it's clearly the leader if you want a program that does it all but doesn't need the deeper toolkits of stand-alone apps. If you want to master only one program, or you have a limited budget, Canvas will reward you with a multitalented feature set.

CORELDRAW 9

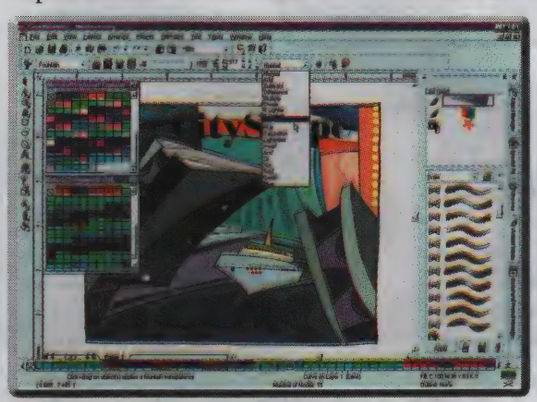
Since its introduction in 1992, CorelDraw has dominated the PC vector-illustration market, and with good reason. It provides an ample selection of powerful tools wrapped in a friendly, configurable interface, and it ships with an unbeatable bundle of extras. Up to now, the program's weakest point was output, but Corel has addressed this in version 9 by beefing up color support and extending the range of output options to include Adobe PDF format.

Corel has tweaked CorelDraw's superb interface to make it even sleeker and more coherent. Most noticeable is the absence of roll-up palettes, which have been converted to dockers—nesting palettes that snap to the edges of your display. The entire interface is completely configurable, and you can save all your settings to a file. This might not sound impressive, but if you typically work with Web graphics one day and brochure layout the next, you'll be amazed at how much time you'll save by being able to recall a specific set of dockers and print settings.

The toolbox almost has it all—geometric primitives; calligraphic and artistic media pens; intelligent connector lines for diagramming; irregular marquee selection; lenses; image sprayers; and knife, eraser, and distortion tools. However, aside from dimensioning tools for showing measurements and sizes, there's not much here for technical illustrators.

Five interactive tools let you extrude and contour objects, and add transparency and gradients. You can also drop shadows by dragging the mouse over an object, and can easily adjust the effect by moving and resizing the interaction arrow and control points.

CorelDraw always seems one step ahead of the competition. While other programs scrambled to add transparency after seeing this feature in CorelDraw 8, version 9 goes further, adding texture, fountain, and pattern transparencies to this already powerful interactive tool. We found CorelDraw's mesh-gradient tool much easier to use than Illustrator's, and CorelDraw's blends, extrusions, and distortion tools are more flexible than those in other programs. For example, not only can you blend multiple objects, you can modify intermediate steps individually, apply color and shape acceleration, and split and fuse blends.



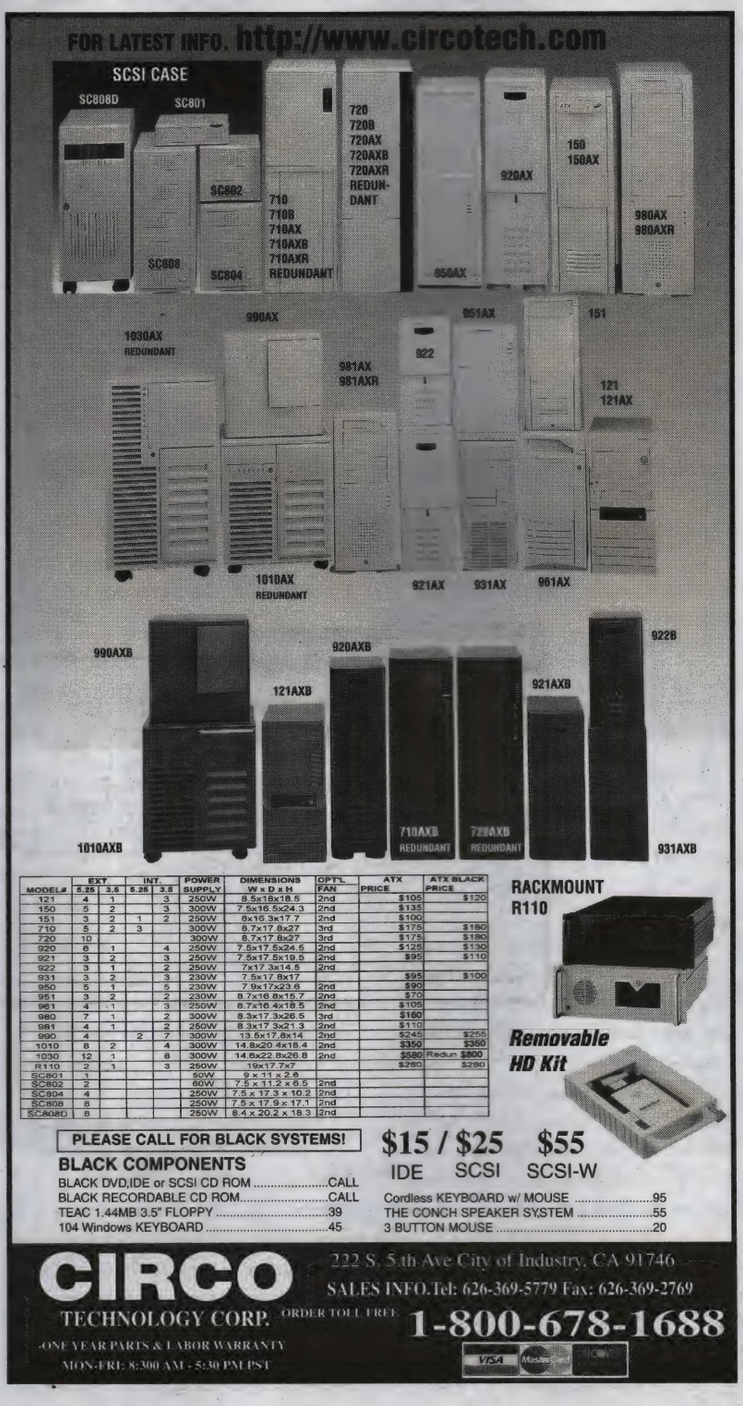
Fills and extrusions are easy to adjust, thanks to CorelDraw 9's unique interactive tools.

The program lets you acquire images from scanners and digital cameras, too, and has plenty of bitmap filters you can apply directly without jumping to an image editor. And although you won't find animation in CorelDraw 9, you will find clean HTML export and support for Cascading Style Sheets (CSS).

Among the many new features is the understated ability to have multiple color palettes open simultaneously. You'll find a complete range of Pantone palettes, as well as the ability to embed ICC profiles into several output formats. You can also extract color profiles from images, which is helpful for retaining control over col-

Best Buy August 1999

CorelDraw 9's immensely broad and deep feature set and incredible bundle of extras make this the top choice for a wide range of illustration tasks. It is the most feature-rich illustration program in the bunch.



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The Art of Illustration

or management among applications.

We were impressed with the new output options, which are by far the most extensive of any vector-illustration program. The new preflight warning feature is invoked automatically when you open the Print dialog box, and it caught all the stupid mistakes we threw at it—incorrect font type, color-gamut mismatch, and the like. Many service bureaus are now accepting PDF files in place of PostScript, and CorelDraw incorporates Acrobat Distiller 4, so you can generate PDF directly and save settings for different output jobs.

We had only a few quibbles with version 9. For one, the program requires Visual Basic (VB) 6, which is included with the package. This isn't too much of a sticking point, except that VB 6 cannot be installed without also installing Microsoft Internet Explorer 5. We also experienced random crashes with version 9, and files containing some lens effects didn't output correctly for us.

Corel is renowned for supplying plenty of extras in the box, and version 9 doesn't disappoint. CorelDraw ships with a superb image editor in Corel Photo-Paint, a terrific but poorly documented program for creating realistic textures, a wonderful font-management utility, a barcode generator, a script editor, a screen-capture program, a media-management app, and a tracing/OCR program. And of course, there are 1,000 fonts, 25,000 pieces of clip art, 1,000 photographs, and hundreds of templates.

There's virtually nothing that CorelDraw can't handle with aplomb, and we recommend it as the most feature-rich illustration program, as well as the best value for your money.

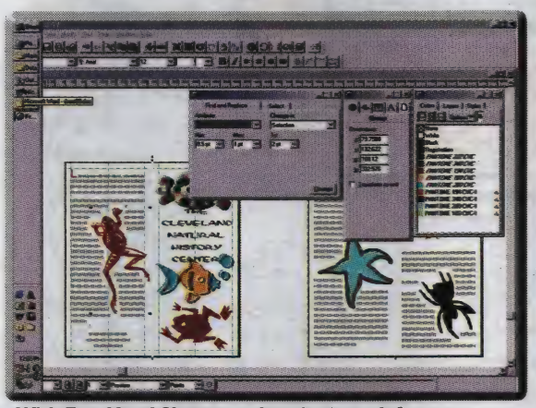
FREEHAND 8 FOR WINDOWS

Macromedia designed FreeHand to be equally at home in print or on the Web. The program is adept at most illustration tasks, although technical illustration is weaker than we would have desired. However, FreeHand produces the most consistent and flawless color output, and it is our program of choice when reliable color is essential.

The working window contains four customizable toolbars and a set of collapsible tabbed palettes called Inspectors. Some palettes can be nested to save space. FreeHand does an especially nice job of making colors available to you by supplying palettes for mixing colors, creating tints, and holding color chips for the current document. Applying colors is as easy as dragging a chip onto an object. The Color List palette shows you color modes as well—RGB, spot, or CMYK. You can drag chips onto the elegant gradient maker, and you can add colors to the palette by clicking bitmap or vector objects with the eyedropper.

The toolbox holds a few unique entries. In Push mode, the strange Reshape Freeform tool becomes a disk that pushes curves around; in Pull mode, you can yank a curve section around the page. The Bezigon tool draws perfectly straight lines and applies automatic curvature to lines as you place points. Like CorelDraw, FreeHand offers lens fills for tinting, inverting, magnifying, lightening, darkening, or applying transparency to parts of a drawing.

FreeHand's type tools are almost on a par with Illustrator's, offering kerning, baseline shifts, widow/orphan and column control, and copyfitting to a text box. Paragraph-level (but not character-level) style sheets are well-implemented, and text effects such as highlight, inline, and zoom are one-step operations. You won't find anything like Illustrator's Asian language support, though, so vertical text has to be hand-tooled. However, text wrapping and attachment tools are superb, and FreeHand does the cleanest job of any illustration program when flowing text in and around objects.



With FreeHand 8's comprehensive search features, you can globally change colors, strokes, fonts, and more.

Many of FreeHand's special effects are supplied as plug-ins, called Xtras. The good news is that they offer diverse tools, including a graphics hose that sprays vector objects onto a page, drop shadows, embossing, pictographic charts, color adjustment, traps, a URL editor, and transparency. For some reason, Macromedia implements common functions, such as path operations and blends, as Xtras. It's nice to have extensibility, but these features are randomly assorted to either the Xtras menu or the Xtras palette, so finding what you want can be exasperating.

FreeHand was the first program to develop a method of displaying vector formats—called Shockwave Flash—on Web pages. Shockwave technology lets designers take advantage of the scalability and smaller file sizes of vector images. You can export layers or pages to sequential Flash animation frames. By constructing a few layers containing text, object, or color shifts, it's relatively easy to generate impressive Web animations in a flash. Unlike Canvas's Colada, however, Flash animations require a (free) plug-in to view with a browser.

Version 8 includes a powerful Xtra called Insta-HTML for exporting FreeHand files as Web pages. FreeHand did an excellent job with our sample home page, which was automatically loaded into our browser after export. You can set numerous options, such as the pages to be exported, the image format, and the background and link colors. Some of the missing links in version 8—a macro feature, technical-drawing tools, and artistic brushes—may be offered in the forthcoming version 9.

Macromedia supplies FreeHand with almost 500 fonts, a small assortment of clip art, and a nice selection of project templates. Given its robust Web-creation tools and well-rounded toolbox, FreeHand is one of the best choices for design shops that need multipurpose output, but don't require features for technical illustration or predrawn artwork.

DRAW YOUR OWN CONCLUSIONS

These programs are all good tools for illustration, but three supply extra octane. FreeHand's reliable output and strong Web tools will appeal to Internet designers, especially those using other Macromedia products. Canvas is a viable alternative for designers who need technical-drawing tools and want an application that can take on image editing, Web graphics, and illustration at a reasonable price. Adobe Illustrator has a nice if unexciting feature set, but it trails just steps behind the competition.

The star of this year's roundup is CorelDraw 9. Its feature set and bundle of extras make it the top choice for a wide range of tasks. ▼

PRODUCT SUMMARY

PRODUCT	Adobe Illustrator 8	Canvas 6	CorelDraw 9 (Best Buy)	FreeHand 8 for Windows
COMPANY	Adobe Systems San Jose, CA 800-649-3875, 408-536-6000 www.adobe.com	Deneba Software Miami, FL 800-622-6827, 305-596-5644 www.deneba.com	Corel Corp. Ottawa, ON, Canada 800-772-6735, 613-728-3733 www.corel.com	Macromedia San Francisco, CA 800-457-1774, 415-252-2000 www.macromedia.com
REQUIRES	32MB RAM; 50MB hard drive space; SVGA graphics card; Windows 95, Windows 98, or Windows NT 4	32MB RAM; 50MB hard drive space; Windows 95, Windows 98, or Windows NT 4	32MB RAM (64MB recommended); 100MB hard drive space; Windows 95, Windows 98, or Windows NT 4	16MB RAM for Windows 95, 24MB RAM for Windows NT; 30MB hard drive space; PostScript printer recommended; Windows 95 or Windows NT 4 with Service Pack 3
AVERAGE PRICE	$322	$328; upgrade, $130	$390; upgrade, $99	$337; upgrade, $149

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All-in-wonder Pro 8MB AGP – AVAAWP8B $119
Xpert Fury Rage 128 32MB AGP–AVGAF32V.. $149
Magnum Rage 128 32MB AGP-AVGAM32 ..... $134

DIAMOND Multimedia/Creative Lab

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Viper 550 16MB AGP – AVADV5 ..... $88
Viper 770 32 MB AGP – AVGDV732 ..... $155
Fusion 3D 16MB AGP – AVGDF32 ..... $99
Creative Banshee 16MB AGP – AVGCB16 ..... $79
Creative Riva TNT 128 16MB AGP – AVGCR16 .$84

APAC

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Toshiba – 2.5" for notebook

4.3GB, EIDE – GHDT43N $147
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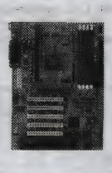
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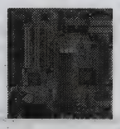
$105
ABIT
BX6R.2

PII/PIII/Celeron Motherboard, Intel 440BX AGPset, CPU Jumperless settting with SoftMenu II technology, 1AGP/5PCI/2ISA with 4 DIMM sockets support up to 512MB SDRAM, ATX form factor, supports ACPI, Ultra DMA/33, Award BIOS..... **B7BBX6**



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PII/Celeron Motherboard, VIA Apollo Pro 100MHz bus speed AGPset, Yamaha PCI sound on-board, 1AGP/3PCI/2ISA with 3 DIMM sockets support up to 384MB SDRAM, AT, support ACPI, Ultra DMA/33, Award BIOS **B7FKA6100**
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FIC PA-2013 $69 .....B5FPA2013D



$89
ASUS
P5A

Super socket 7 motherboard, Ali Aladdin V chipset, 100MHz, 1AGP/5PCI/2ISA with 3DIMM sockets support up to 356MB SDRAM, ATX,Award BIOS **B5AP5A**
ASUS P5A-B $83.....B5AP5AB



$82
TYAN
S1590S

Super socket 7 motherboard, VIA MVP3 chipset, 100MHz, 1AGP/4PCI/4ISA with 3 DIMM, 2 SIMM sockets, support up to 768MB, AT form factor, Award BIOS..... **B5YS1590S**

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- DFMIU17V .....$ 74

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- MSCC1371 ..... $23
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FAMILY TREE MAKER DELUXE 15-CD SET

Uncovering Your Roots

PRODUCT	Family Tree Maker Deluxe 15-CD Set
COMPANY	Broderbund Software Fremont, CA; 800-548-1806, 319-395-0115 www.familytreemaker.com
REQUIRES	16MB RAM; 70MB hard drive space; Windows 95 or Windows 98
SUPPORT	Live phone support, 7 a.m. to 5 p.m. weekdays (PT); 90-day money-back guarantee; Web
SUITABILITY	Great for both the casual family sleuth and the hard-core genealogy buff, but you'll still need to do some legwork
AVERAGE PRICE	$74

Researching your ancestry can be a time-consuming affair, but Broderbund Software's top-selling genealogy program Family Tree Maker can help simplify the task. The latest version, Family Tree Maker Deluxe 15-CD Set, provides additional assistance with an abundance of historical data and a simple, intuitive interface.

The FamilyFinder Index CD-ROM serves as a master index for approximately 200 million names. From there, you can reference any of the set's other CDs: birth records of hundreds of thousands of people born in the United States and Europe; marriage records from the United States and 32 other countries spanning from 1560 to 1900; the U.S. Soldiers archive, which contains the service records of 21,000 volunteer soldiers who served between 1784 and 1811; and the Social Security Death Index, compiled from decades of death-benefit and railroad-pension records. This version of Family Tree Maker also lets you access 300 million names on the Internet and 1 billion names through professional search organizations.

At the core of all this data is an interface that's simple to use despite having a wealth of features and options. The Family Page lets you enter information about each family member, including dates, events, stories, photos, and videos. The Privatization Mode gives you the option of sharing some family details while withholding other parts. With one click, you can move between generations or view your family tree in several different modes. The Relationship Calculator displays the blood or marital ties of any two family members. The program can even accommodate the relationships in nontraditional families.

After you've combined the data found on your own with the information contained in the reference CDs and on the Internet, the program gives you options for displaying and printing your family tree. The screen-based Scrapbook, for instance, resembles a photo album with rows of photos, scanned documents, or video files. The family-tree layouts include the standard Ancestor Tree, which arranges individuals according to nuclear families; the Fan Tree, which projects outward by either ancestors or descendants; the Hourglass Tree, which projects in two directions to show both ancestors and descendants; and the All-in-One Tree, which condenses all family members into a single view.



Family Tree Maker's FamilyFinder Index gives you access to approximately 200 million names.

Although it can't do all the work for you, Family Tree Maker Deluxe 15-CD Set certainly provides much information with which to start. This package gives you the tools to create a product that could be a legacy of knowledge to be handed down from one generation to the next.

—David English

BRYCE 4

Build Your Virtual World

PRODUCT	Bryce 4
COMPANY	MetaCreations Corp. Carpinteria, CA; 800-846-0111, 805-566-6200 www.metacreations.com
REQUIRES	32MB RAM (64MB recommended); 75MB hard drive space. Windows: Pentium; Windows 95, Windows 98, or Windows NT 4 with Service Pack 3. Mac: OS 7.5.5 or later
SUPPORT	Live phone support, 6 a.m. to 6 p.m. weekdays (PT)
SUITABILITY	A powerful, flexible, and easy-to-use tool for graphic artists and Web authors who want to create virtual worlds and realistic landscapes
AVERAGE PRICE	$177

MetaCreations Corp.'s Bryce 4 isn't your run-of-the-mill 3-D modeling program. Unlike general-purpose packages, Bryce is designed solely to generate realistic 3-D landscapes. Armed with an array of specialized modeling and animation tools, this new version makes it easier than ever to create stunning digital worlds and export them to most 3-D graphics and virtual-reality packages.

Like all programs designed by graphics guru Kai Krause, Bryce 4 uses an idiosyncratic icon-based interface that ignores most Windows conventions. Instead of menu bars and scrolling drop-down lists, it displays palettes of objects that users click and drag around the screen to perform various functions. If you're unfamiliar with other Krause creations like Convolver and Kai's Power Tools, you might have trouble performing tasks as simple as saving your work or closing the program. But with just a little practice, it should become easy to access Bryce's large selection of sophisticated features.

Prominent among these features is the new Sky Lab function that lets you manipulate clouds and atmospheric conditions—and even control the appearance of the sun and moon—in the skies you create. As is the case with most Bryce functions, all these scenes can be animated along a timeline to produce sunsets, eclipses, and drifting cloud formations.



Bryce 4 automatically converts 2-D images into realistic three-dimensional geography.

The enhanced Terrain Editor offers more than 20 families of realistic fractal-generated land types, including mountains, mudflats, sand dunes, and even molten lava. The software's wide selection of terrain-modeling controls makes it surprisingly simple to customize predefined terrains, create your own worlds from scratch, or combine multiple landscapes into more complex geography.

Bryce 4's expanded output capabilities let you export static landscapes and animations to almost any popular 3-D modeling application. You can also save them as HTML pages with embedded links, RealPlayer or MetaStream streaming video, and VRML- or QuickTime VR-navigable virtual-reality environments. Bryce can import most types of 3-D objects created in third-party packages and can read U.S. Geological Survey (USGS) maps, so you can build scenes from real-world geography.

The robust Bryce 4 package also includes luxuries like half-a-dozen Kai's Power Tools Photoshop filters, single-click access to an Internet Bryce chat site, a terrific 450-page manual, comprehensive tutorials, and hundreds of megabytes of predefined 3-D objects, textures, templates, and completed scenes. We recommend it highly.

—Don Labriola

Best Buy August 1999

MetaCreations' **Bryce 4** is a powerful yet easy-to-use program designed to help graphics pros and Web designers create 3-D landscapes.

OMNIFORM 4.0

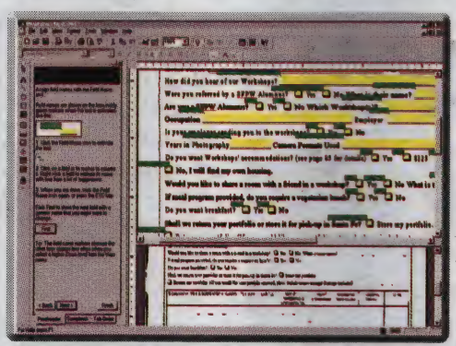
More Functional E-Forms

PRODUCT	OmniForm 4.0
COMPANY	Caere Corp. Los Gatos, CA; 800-654-1187, 408-395-7000 www.caere.com
REQUIRES	16MB RAM; 25MB hard drive space; Windows 95, Windows 98, or Windows NT 4.0
SUPPORT	Live phone support, 7 a.m. to 4 p.m. weekdays (PT), free for first incident, $25 per incident thereafter; $99 for one year of toll-free support; 30-day money-back guarantee; Web; e-mail
SUITABILITY	For beginners and advanced users with forms that need to be converted for use on the Web
AVERAGE PRICE	$129

Caere Corp.'s new OmniForm 4.0 lets you build electronic forms from scratch, or scan and convert existing paper forms into e-forms with little effort. The package also incorporates the latest version of Caere's OmniPage OCR engine and an enhanced Logical Forms Recognition (LFR) system. As a result, the program now supports 24-bit color and offers better handling of degraded originals.

The new form-proofing wizard speeds the form-editing process for beginners and advanced users, with step-by-step instructions to correct spelling, colors, formatting, misread lines, and field names. In essence, the wizard acts as a list of tools that you can randomly skip through.

The new tabbing control makes reorganizing a form's tab order and managing fields much simpler. In addition to displaying all of your form's fields, it lets you rename and group fields, and navigate the form. OmniForm's ability to create drop-down lists is well-implemented. Also, you can save any list of entries for reuse elsewhere. However, we found the program's ability to select only from existing tables in the database—and not queries—to be a glaring omission in the ODBC lookup options.



OmniForm 4.0 now supports 24-bit color and outputs to a broad array of delivery formats.

You can now output the forms to a broader selection of delivery formats, including fillable PDF and DHTML. The software also uses wizards to export to DHTML and create simple CGI scripts to gather data. But both the output and the scripts require editing after they've been generated. Our simple one-page text-only form ended up quite large, thanks to some coding inefficiencies and lots of JavaScript. We highly recommend using OmniForm's native format with a plug-in or with the Filler package wherever possible. It's faster, and you don't sacrifice any database capabilities, such as autopopulate.

Surprisingly, OmniForm's biggest weaknesses are its basic tools. The software properly grouped check boxes and did a good job differentiating between exclusive options and multiple-select options. But it had difficulty separating field names and did not fare well on a table (due in large part to the use of hairlines to separate cells, which didn't scan sufficiently well for OmniForm to perform accurate recognition). Many of our post-recognition cleanup tasks could have been avoided if OmniForm incorporated a zoning tool similar to that in OmniPage.

All of the new features work well, although most stop short of reaching their full potential. Despite its flaws, however, OmniForm is a capable tool for converting existing paper forms into e-forms—even if it still takes some work.

—Lori Grunin

TEXTBRIDGE PRO 9.0

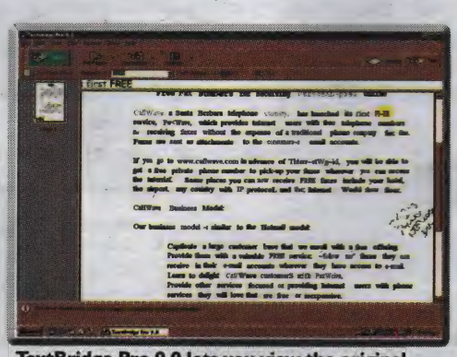
Getting an Accurate Read

PRODUCT	TextBridge Pro 9.0
COMPANY	ScanSoft Peabody, MA; 800-432-9329, 978-977-2000 www.scansoft.com
REQUIRES	24MB RAM (32MB recommended); 20MB hard drive space; Windows 95, Windows 98, or Windows NT 4.0
SUPPORT	Live phone support, 8:30 a.m. to 5:30 p.m. weekdays (ET); fax; Web; 30-day money-back guarantee
SUITABILITY	A powerful OCR package for accurate recognition of text on scanned documents and creation of HTML output
AVERAGE PRICE	$90

When converting paper documents to digital data, OCR programs such as ScanSoft's TextBridge Pro 9.0 are essential for helping scanners read the text, and convert it to files you can open and edit with a word processor. This latest version of TextBridge Pro provides a cleaner interface, improved accuracy, and precise HTML output—all of which combine to make it more powerful than ever.

We tested the software on a 233MHz Pentium II with 64MB of RAM and two TWAIN-compatible scanners—Logitech's PageScan Color and Umax Technologies' Astra 1220U. The test documents included ordinary office memos, photocopied faxes, and complicated newsletter and magazine layouts. When performing OCR on clean 600-dpi laser and inkjet print samples, TextBridge Pro achieved roughly 99 percent accuracy. However, that dropped to about 90 percent for the less legible faxes.

We were impressed with TextBridge Pro's accurate conversion of complicated newsletter and magazine layouts into similar-looking HTML documents. Welcome additions in this version include helpful thumbnail views of scanned documents, a scheduler to perform OCR recognition at specified times, and the ability to identify and maintain color graphics.



TextBridge Pro 9.0 lets you view the original scan and proofread the converted document.

The program also now scans multipage paper documents and creates Web sites with tables of contents, built-in links, and navigation tools for moving between pages. It is competent at these tasks, but its table of contents lists only individual scanned pages; you'll still need an HTML editor to make any changes to your scanned documents.

TextBridge Pro's interface is more intuitive and easier to use. A click of a button is all it takes to recognize text and graphics and to process your document. You can still perform each step manually if you prefer, though. Other new additions are tabs that let you quickly switch between views of the converted page and the original scan. The program also displays the original scan of each word as you proofread the document and checks each word against its built-in dictionary.

TextBridge Pro was as accurate at reading clean text as Caere Corp.'s OmniPage Pro 9.0, the other major player in the OCR software market. OmniPage Pro, however, still has the upper hand at recognizing faxes, and TextBridge Pro was also considerably slower at processing documents—a serious consideration if you have lots of pages to process.

Overall, TextBridge Pro is easy to use, offers first-rate accuracy, and provides precise HTML re-creations of scanned page layouts. It's not a speed demon for processing documents, but if that's not an issue in your office, then go ahead and put it to work.

—Wayne Kawamoto

ARCADE GAMES

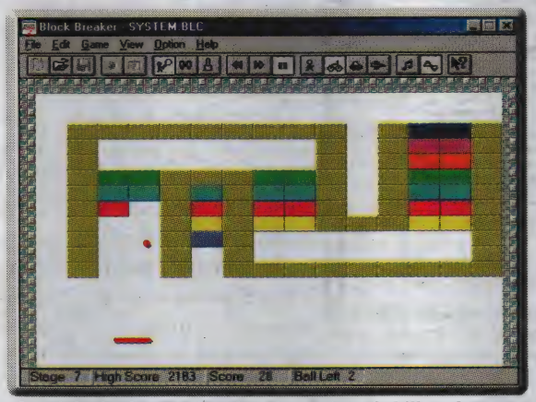
Down-Time Power-Ups

BY DAVID ENGLISH

You've had a rough day at the office and need an escape from the drudgery. We've got just what you're looking for—and you don't even have to leave your desk. The following four PC-based arcade games can provide the precise dose of stress relief needed at the end of a long day. They'll get your heart pumping, fingers twitching, and brain revved into a steady state. In fact, they may even suck you in a little too much.

The four traditional arcade games we feature this month challenge you to knock out rows of colored bricks, shoot down speeding comets, master an authentic pinball machine, and eliminate fleets of submarines while avoiding torpedoes and mines. Two of the four are free; the other two are practically free, since they can be played indefinitely in their downloadable versions.

You can download these programs from *Computer Shopper's* Web site (*computershopper.com*), or directly from ZDNet's Software Library (*www.hotfiles.com*). For filenames and other details, refer to the product list box.



It might look easy, but it takes a lot of skill and practice to remove all the bricks in Block Breaker.

BLOCK BREAKER 4.20E

Sometimes the simplest games are the most addictive. Block Breaker 4.20e, a variation of the classic Breakout game, is a snap to learn and only takes a few minutes to play. Using a mouse or a keyboard, you move a paddle from side to side to bounce a moving ball against a pattern of multicolored bricks. The object is to remove all the bricks from the screen by striking each one with the ball. The 15 levels of game play become progressively more difficult as you encounter gold bricks that function as barriers and gray bricks that have to be hit repeatedly before they'll disappear. By hitting the ball with a particular part of the paddle, you can direct it to where it will be most effective.

Outstanding features include a pattern editor that lets you create your own game screens; menu settings for the game's speed, controls, and sounds; and the ability to quickly pause the game by pressing the right-hand mouse button. But be warned—this game is so addictive, you might wish it wasn't free, so you'd have an excuse to stop playing.

COMET BUSTERS 1.4

After a rousing version of Breakout, get ready for an improved version of Asteroids. Comet Busters 1.4 from Hamco Software features the same adrenaline-producing action as the original arcade game, but adds detailed graphics that can expand to fill your entire screen.

A multiplayer option supports up to four players on a network, modem, or direct cable connection, but only two computers can be connected at a time. A special tournament mode enhances the multiplayer competition by shifting the emphasis to destroying your fellow players rather than blasting comets and aliens. This is accomplished by using your bullets to push the comets into the path of other players.

The $9 registration fee gives you four cheats. These can make your ship invulnerable, provide an autofire capability, let you destroy anything your ship touches, or provide you with a nuclear bomb that clears the screen. The task of shooting rogue comets and enemy spaceships is sure to let out some of the tension after a day of mundane business computing chores.

MICROSOFT PINBALL ARCADE 1.01

If you love pinball games—either mechanical or computer-based—you'll want to check out this abbreviated version of Microsoft Pinball Arcade 1.01. Strictly speaking, this is a free demo of the $35 commercial game, although it's quite playable on its own. The full version includes seven historically accurate pinball machines, one representing each decade from the 1930s through the 1990s. The downloadable version consists of the collection's best table: Haunted House, from 1982. It was the first pinball game to use a triple-decker table, so it presents its own set of challenges.

When you first run the game, you'll be struck by the authentic look of the machine. The detailed graphics, true-to-life mechanical sounds, believable feel of the flippers, and precise movement of the ball make the game as real as you could reasonably expect. Options include custom keyboard controls, three nudging keys (nudge too much, and you'll tilt the game), and accommodations for one to four players.

This version is limited to 200,000 points per game. Thus, when your score passes the limit, you'll have to start again. Fortunately, it isn't easy to score that many points, so most players will be able to enjoy a full game.

WINDEPTH 0.21

Movies such as *Crimson Tide* and *Das Boot* capture the thrill of submarine warfare from the subterranean point of view. WinDepth 0.21 flips the equation, taking the perspective of a naval destroyer that has to defend itself against a fleet of submarines.

This free arcade game uses simple graphics, but the action keeps things interesting. Your destroyer has to navigate through a hail of torpedoes and mines as you time the depth charges to hit the moving enemy ships. As the levels progress, the volley from the submarines increases—but so do the opportunities to rack up multiple hits with your depth charges. If you time it right, you can knock out 10 or more ships with a single explosive.

Microsoft Pinball Arcade 1.01 is a free demo of the $35 commercial game, although it's still quite playable. The downloadable version contains the collection's best table: Haunted House, from 1982.

Although the game is easy to learn, the documentation is written in Japanese, so don't expect much help there. Do expect, however, to be entertained. WinDepth starts out simple but becomes progressively more difficult as you advance to higher levels. ▼

PRODUCT SUMMARY

PRODUCT	Block Breaker 4.20e	Comet Busters 1.4	Microsoft Pinball Arcade 1.01	WinDepth 0.21
COMPANY	Yutaka Emura www.nifty.ne.jp/forum/femsoft/index-e.htm	Hamco Software pobox.com/~hamco	Microsoft Corp. www.microsoft.com/games/pinball	Bio_100% www.and.or.jp/Bio_100
FILENAME	BLOCKW.ZIP	CMTBST.ZIP	PINBLARC.ZIP	WINDEPTH.ZIP
REGISTRATION FEE	Free	$9	Free (for demo)	Free

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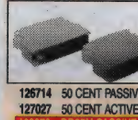
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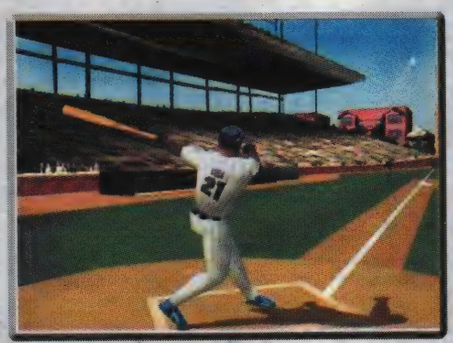
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REQUIRES .....Pentium 166 or faster; 16MB RAM; 20MB hard drive space; 4x CD-ROM drive; 2MB PCI or AGP DirectX 6.0-compatible graphics card; 16-bit DirectSound-compatible sound card; modem, serial cable, LAN, or Internet connection required for multiplayer modes; Windows 95 or Windows 98
SUPPORT .....Live phone support, 9 a.m. to 6 p.m. weekdays (PT); fax; e-mail; Web; 90-day defective-disc warranty
SUITABILITY ....Graphically rich and easy to play for fans of action-oriented baseball games
AVERAGE PRICE $39

For our money, sports games have been the greatest beneficiaries of today's 3-D graphics explosion. Need proof? Then check out EA Sports' brilliant Triple Play 2000 (TP2K), one of the most dynamic and realistic baseball games ever made.

Up to two players can compete in a single game, user-defined season play, a home-run challenge, or post-season playoffs. You can customize almost every aspect of play, including the player and computer skill levels; weather effects; and the degree of computer-assisted pitching, batting, base running, and fielding. Such flexibility gives the game wide appeal.

Visually, TP2K knocks one out of the park, from the realistically rendered stadiums—featuring outstanding lighting and shadow effects for afternoon, evening, and night games—to the vastly improved player animation and uniform textures. Thanks to its enhanced anatomical modeling, emphasizing facial expressions and hand gestures, onscreen players are more lifelike than ever.

Other graphics improvements include action-sensitive field cameras that not only give you the best angle on the ball, but keep the game moving at an energetic pace. Improved agility means fielders leap and dive for balls, often throwing off-balance, but rarely off-target. Batters' swings leave multicolored motion trails, peppered with a crisp surround-sound whoosh. Land a monster hit and watch the ball scream high above the roaring crowd. For baseball fans, it doesn't get much more exciting than this.



Sammy Sosa knocks one out of the park in EA's visually hard-hitting Triple Play 2000.

The game tested like a champ on a 233MHz Pentium PC with a 12MB Voodoo2-based Monster 3D II graphics card. EA has also expanded its 3-D hardware support to include cards based on 3-D accelerators from ATI, Matrox, nVidia, and Rendition, as well as most new Direct3D-compatible models.

In addition, the game offers something you don't see every day: mouse control. In fact, to our knowledge, TP2K is the first baseball sim to offer total mouse control of all pitching, batting, and fielding duties. Though this way is fast and intuitive, we still prefer joysticks for more consistent, reliable response. The game is also optimized for multibutton game-pad controllers, particularly the Gravis Gamepad Pro and the Microsoft SideWinder.

Surprisingly, the emphasis on action doesn't shortchange the game's managerial depth. TP2K features the full 1999 rosters of all 30 MLB teams, complete with a full two-stage fantasy draft, a season game scheduler, free agents, salary caps, automatically updated league standings, and full player/team season statistics.

Triple Play 2000 is one of those rare sports titles where the caliber of game play perfectly matches the quality of its presentation. For baseball action so real it challenges the senses, step up to the plate.

—Scott A. May

EVERQUEST

Get Hooked on a Fantasy

PRODUCT .....EverQuest
COMPANY .....989 Studios
A Sony Computer Entertainment Group Co.
Foster City, CA; 650-655-8000
www.everquest.com
REQUIRES .....Pentium 166 or faster; 32MB RAM; 500MB hard drive space; 6x CD-ROM drive; Direct3D- or Glide-compliant graphics card with 4MB RAM; Sound Blaster-compatible sound card; 28.8Kbps or faster modem; Internet connection; Windows 95 or Windows 98
SUPPORT ....Live phone support, 8:30 a.m. to 5:30 p.m. weekdays (PT); e-mail; Web
SUITABILITY ....An engaging and enormously addictive online role-playing game that, despite the bugs, will keep you glued to your PC
AVERAGE PRICE .....$45; monthly online fee, $10

EverQuest, from Sony's 989 Studios, is an ambitious online role-playing game (RPG) that offers lush 3-D graphics, a richly detailed fantasy setting, and wonderfully addictive game play. Compared with other popular online RPGs (Ultima Online in particular), EverQuest rises to a level all its own. The game has its share of flaws, but none are significant enough to seriously hinder the fun.

The game casts players into the online fantasy world of Norrath, a land where humans, elves, dwarves, and trolls coexist, sometimes peacefully, sometimes not. When you sign on for the first time, you create a character to represent you in Norrath. You choose from any of the game's races; some are more challenging to play than others. Also, you select a class for your character. These include fighter, magician, rogue, shadowknight, and necromancer. Your class determines your skills in the game; together, race and class help shape your overall experience in EverQuest.

The goal is to make your character more powerful and self-sufficient by battling the creatures of Norrath. Of course, you can't jump into the world and start slaying dragons. You'll have to begin with rats (lots of 'em), snakes, bats, and the occasional fire beetle. One caveat: EverQuest requires a significant time commitment if you really want to develop a solid character. You could spend days whacking rats before you're ready to fight a skeleton or a gnoll.



You'll have to kill a bunch of rats before getting a crack at a skeleton in EverQuest.

Fortunately, the game stresses teamwork and social interaction in almost every facet of play. This can help relieve much of the monotony of the early rounds and enhance your enjoyment of the game. The social aspect of EverQuest also entails joining guilds and going on quests—things that low-level characters can strive for and that make the game more interesting overall. Ultima Online veterans need not worry about player-killing, because players must agree to kill off characters before it can happen.

We had a few minor gripes, such as the game's cluttered interface, the occasional bug, and a skimpy manual. The game is also appallingly addictive, which can be both good and bad.

But despite these issues, EverQuest is simply the best online RPG around, and it figures to grow more impressive and refined over time. If you're into online monster-slaying, you need to get into EverQuest.

—Michael E. Ryan

STAR WARS: EPISODE 1 RACER

Eat My Space Dust

PRODUCT	Star Wars: Episode 1 Racer
COMPANY	LucasArts Entertainment Co. San Rafael, CA; 888-532-4263 www.lucasarts.com
REQUIRES	Pentium 166 or faster; 32MB RAM (64MB recommended); 188MB hard drive space; 4MB PCI or AGP Direct3D-compatible graphics card; 4x CD-ROM drive; Windows 95 or Windows 98
SUPPORT	Live phone support, 8:30 a.m. to 11:45 a.m. and 1 p.m. to 5:30 p.m. Mon. to Thurs., 8:45 a.m. to 11:45 a.m. and 1 p.m. to 4:30 p.m. Fri.; fax; Web
SUITABILITY	A fun, fast-paced racing game set in the *Star Wars* universe
AVERAGE PRICE	$45

The Podracing sequence of *Star Wars: Episode 1* is one of the most exciting scenes in the film. And LucasArts Entertainment Co. does an admirable job capturing much of that excitement in Star Wars: Episode 1 Racer, one of the first two PC games to be based on the movie.

Best Buy August 1999

In **Star Wars: Episode 1 Racer,** the thrills come fast and furious as you pilot your Podracer at up to 600 mph on 25 of the most gorgeously rendered racetracks in the galaxy. The Force is definitely with this one.

In Racer, you play the role of a fearless Podracer as you compete against 20 other drivers on 25 tracks scattered across the Outer Rim planets. Beginning with the familiar Boonta Classic on Tatooine (the race from the movie), you'll move on to a water planet, a spice mine, and a variety of other locales as you attempt to capture the championship on three different circuits: amateur, semipro, and pro. Naturally, each circuit becomes progressively more challenging, so you'll have to be awfully good to win (or even place in the top three) by the end of the pro circuit.

The game play in Racer is similar to other racing games—such as Need for Speed III or Test Drive 5. The major difference, of course, is that you're behind the controls of a jet-powered hovercraft that whips along at nearly 600 miles per hour. Your vehicle is composed of a cockpit and two engines—and though it moves as a unit around the track, each component moves a bit on its own. So you have to steer very carefully.

Between races, you can upgrade your Podracer with better equipment to improve speed, maneuverability, and even the time it takes to repair the craft after each race. Indeed, you'll need to make these modifications if you want to remain competitive as you progress through the circuits.

The graphics in Racer are outstanding (the game requires a 3-D accelerator), with track designs that range from relatively easy to devilishly difficult. One of the most impressive aspects of the game is the sound and music, which includes an array of great sound effects for your craft, the other Podracers, and the crowd. The John Williams-composed soundtrack, which is taken from the film, adds a particularly nice dramatic touch to your races.



With its exhilarating game play and rich graphics, Racer is a winner even without its movie tie-in.

Here's a case where the game isn't leaning on its *Star Wars* license. Even without the movie to support it, Racer is one impressive and addictive racing game. If you're into fast-paced racing action, be sure to check it out.

—M.E.R.

LANDS OF LORE III

More Smoke and Mirrors

PRODUCT	Lands of Lore III
COMPANY	Westwood Studios Las Vegas, NV; 888-212-1702 www.westwood.com
REQUIRES	Pentium 166 or faster; 32MB RAM; 450MB hard drive space; DirectX-compatible 2-D graphics card with 2MB RAM; 16-bit DirectSound-compatible sound card; Windows 95, Windows 98, or Windows NT 4.0
SUPPORT	Live phone support, 8 a.m. to 11 a.m. and noon to 5 p.m. weekdays (PT); fax; e-mail; Web; 90-day defective-media guarantee
SUITABILITY	A large fantasy role-playing game with an emphasis on magic and combat, suitable for newcomers to the genre
AVERAGE PRICE	$43

Call it bad timing or bad karma, but Westwood Studios' Lands of Lore series always seems to lag a few steps behind the state of the art. Whether hampered by a clumsy interface or a rickety old graphics engine, this nonetheless popular role-playing series has made its fans dig deep to find any gems of game play.

Although a stand-alone adventure in its own right, Lands of Lore III (Lands III) continues to build upon the rich story line developed in previous episodes. This time out, the Draracle has returned to his own realm, shattering the magic mirror that binds the dimensions together. As Copper LeGre, heir to the throne, you must recover the mirror fragments from five alternate realities to seal the rift in space and time.

Subplots and mini-quests abound, but the linear story line places strict limits on your freedom to explore. For example, there's an entire subplot of political backbiting that deepens the narrative. However, character interaction and dialogue are preset, with few random elements to invite any repeat play.

One of the game's most notable improvements is its streamlined, icon-based interface system, which places spells, weapons, and inventory management all within easy grasp. Lands III ran well on a 233MHz Pentium system equipped with a 12MB Voodoo2 graphics card and produced only an occasional animation stutter. Segment loading times on this four-CD saga, on the other hand, are painfully slow, robbing the game of any momentum.

The antiquated aesthetics of Lands III don't help matters much, either. Despite having finally jumped on the 3-D-accelerated graphics bandwagon, the game's graphics are still primeval by contemporary standards. Although Lands III has a few stunning 3-D video effects—with dynamic lighting, shadow, and colorful transparency effects—the illusion is shattered when put in motion.

Most objects in the game are rendered in chunky low resolutions, and both indoor and outdoor pathways share the same 2-D texture-mapped "walls" that fill space but are completely flat and inaccessible. Still, all the window dressing in the world would fail to conceal the rudimentary game play and canned character interaction. There's little here to challenge the mind or thrill the senses.


Despite the improved interface, Lands III's graphics still lag behind the competition.

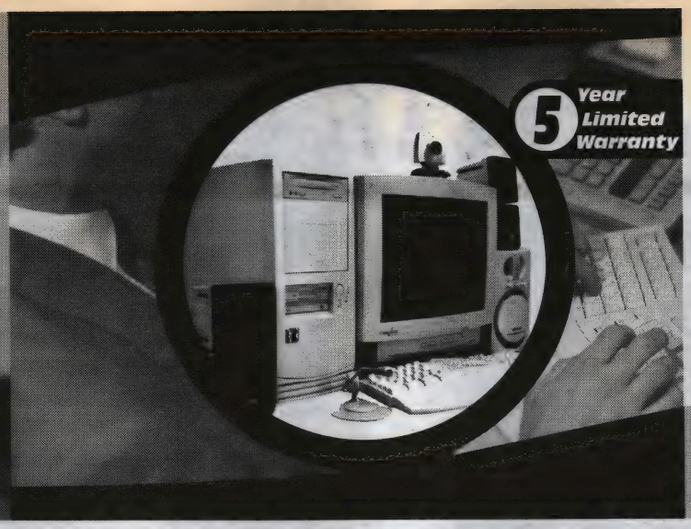
Lands of Lore III suggests that Westwood may be losing heart with this once-vital fantasy series. Without enthusiasm or creative commitment to give it life, it may be time to start thinking about closing the book on this fable.

—S.A.M.

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SHOPPER'S GUIDE CHARTS

(Note: This month's Shopper's Guide is a Special Report and does not have charts.)

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The page numbers listed here will guide you to the comparative tests and single-product reviews in the magazine's Desktops, Mobile, Hardware, Networks, and Software sections.

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SMOOTH SEARCHING

For Product Index Users

Due to the lead time required to assemble and print a monthly magazine, prices and product availability are subject to change. Call vendors to get their latest prices, and ask whether any unadvertised specials or sale prices are available.

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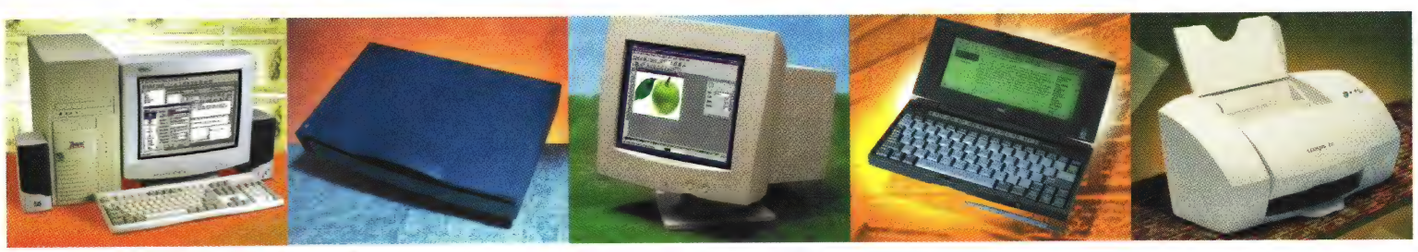
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For information on how we use our lab facilities and the Ziff-Davis Benchmark Operation's battery of tests in our stand-alone and comparative reviews, go to *computershopper.com/edit/cshopper.*





DIRT CHEAP

THE #1 SOURCE FOR STORAGE PRODUCTS



FAST SERVICE

We stock what we sell for fast service! Most orders are shipped the same day.



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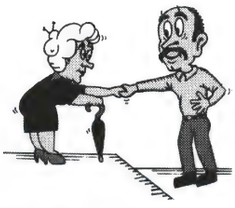
Our technical staff is factory trained and can assist you with even the most complex problems. PC Magazine said our technical staff "was notable for their informed and effective responses."

LOW PRICES



Our huge volume allows us to sell at "DIRT CHEAP" prices. Compare our prices. "Dirt Cheap was the firm I'd buy from... It's prices were the lowest of the bunch."* Computer Shopper Magazine. *If by chance you do find a lower price, call us.

HELPFUL STAFF



Our entire staff is friendly and helpful. We sincerely appreciate your business. Storage products are all we carry, so our staff can answer all your storage questions.



LONGEVITY

12 Years in business makes us one of the oldest direct resellers around.

SATISFIED CUSTOMERS



We satisfy our customers, most of our business is from repeat customers. Rest assured we will satisfy you as well.



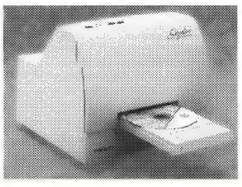
AWARD WINNING

Readers have voted us to our third consecutive readers choice award.* PC COMPUTING *said, "The name says it all. Buying a hard drive? Call here first."

Tear and compare our media prices!

CD PRINTER

Premiere Signature CD Printer $999



Print Your Own CDs!
Your CD's will look professional quality with this color CD printer. Prints on printable CD's. Compatible with PC or Mac.

CDR SOFTWARE

Adaptec

Easy-CD Creator 3.5 OEM (EZCDCRTRSTD) $50*
-Supports Win 95, 98 & NT 4.0. Ask about new version with free DirectCD
-Retail version of above (EZCDCRTRRTL) $90

Videoh allows you to capture and edit home movies and turn them into CDs. Includes hardware and software. Includes Easy-CD Creator Deluxe (VIDEOH) $249

DirectCD (DIRECTCD) $39*
-Option for Easy-CD allows CD-R & CD-RW drives to work like hard drive under Win 95, 98 & NT 4.0 with some drives

Toast CD-ROM Pro (TOAST) $75*
-Supports Macintosh includes Direct CD for Mac
-Retail version of above (TOASTRTL) $95

Gear

Gear Multimedia for PC (GEAROEM) $55*
-Supports Windows 3.1, 95, NT
-Retail version of above (GEAR-RETAIL) $69

Gear Audio (GEAR-AUDIO) $49
-Supports Win 95, and NT 4.0
-Allows you to mix your own audio CDs

Gear Replicator (GEAR-REP) $45
-Supports Win 95, and NT 4.0 **ONLY $19 with drive!**
-Allows you to copy CD ROM, music CD's, etc

Web Grabber (WEBGRAB) $39
-Supports Win 95, and NT 4.0 **ONLY $19 with drive!**
-Allows you to easily store complete web sites on CDR

Gear Suite (GEAR-SUITE) $79
-Supports Win 95, 98 and NT 4.0 **ONLY $69 with drive!**
-Includes Gear Audio, Replicator, and Web Grabber

Gear for UNIX (GEAR-UNIX) $1299
-Compatibe with most UNIX workstations

Creative Digital Research

HYCD Suite for Win 3.1, 95 & NT 4.0 (HYCDSUITE) $59

HYCD Publisher for PC (Windows 3.1, 95, NT) (CDRHYWIN)
Creates hybrid CDs for PC/Mac/Unix, bootable CDs. Includes CD Copy, Drag and Drop, & music utilities. $169

Creative Digital Research CDR HYCD Publisher for Unix workstations, creates standard, hybrid, & bootable CDs for PC/Mac/Unix (CDRHYUNIX) $1029

We Are CDR & CDRW Headquarters.

We are committed to being the number # source for CD media & supplies. Call us with your needs. Large quantity discounts available. We welcome resellers, dealers, and government buyers.

CD RECORDABLE MEDIA

***CDR-74* in jewel case**		**Alone**	**with CDR**
4x	5 pack (CDR74B)	$19	$17
4x	20 pack (CDR74B-20)	$36	$33
4x	50 pack (CDR74B-50)	$74	$70
4x	100 pack (CDR74B-100)	$139	$129
8x	5 pack (CDR74-5)	$21	$19
8x	20 pack (CDR74-20)	$42	$39
8x	50 pack (CDR74-50)	$93	$89
8x	100 pack (CDR74-100)	$159	$149
8x	Platinum 5 pack (CDR74PA-5)	$23	$21
8x	Platinum 20 pack (CDR74PA-20)	$45	$42
8x	Platinum 50 pack (CDR74PA-50)	$102	$97
8x	Platinum 100 pack (CDR74PA-100)	$169	$159
Printable CDR-74 in jewel case		**Alone**	**with CDR**
4x	5 pack (CDR74PB-5)	$24	$21
4x	20 pack (CDR74PB-20)	$55	$52
4x	50 pack (CDR74PB-50)	$109	$99
4x	100 pack (CDR74PB-100)	$179	$169
8x	5 pack (CDR74P-5)	$27	$24
8x	20 pack (CDR74P-20)	$65	$62
8x	50 pack (CDR74P-50)	$139	$135
8x	100 pack (CDR74P-100)	$239	$229

CD REWRITABLE MEDIA

***CDR-74W* in jewel case**		**Alone**	**with CDR**
2x	5 pack (CDR74WB-5)	$33	$29
2x	20 pack (CDR74WB-20)	$75	$69
2x	50 pack (CDR74WB-50)	$159	$149
2x	100 pack (CDR74WB-100)	$269	$259
4x	5 pack (CDR74W-5)	$59	$55
4x	20 pack (CDR74W-20)	$149	$145
4x	50 pack (CDR74W-50)	$359	$349
4x	100 pack (CDR74W-100)	$689	$679

New! CD-RW starter pack. Includes 5 CD-RWs (2x), and 10 CD-Rs (4x) (CDSTARTER) $45

New! Spindle media. Includes 50 CD-Rs (6x), no jewel cases included (CDR74S) $59

WE WON'T BE UNDERSOLD!

Dealer inquiries invited.

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- 100 labels for inkjet or laser printers, & photo copiers.
- Label applicator
- 1200 clip art images
- Mac & PC templates for most applications.

$39 if purchased alone (CDLABELPRO)
100 extra labels **$19** (PAPERLABEL)
40 glossy labels **$19** (GLOSSLABEL)

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THE BEST BUYS IN CD RECORDERS





5 Free disks with each drive!
Toll Free technical support!
Free Technical Support for Life!
Name brand drives!
High quality
Affordable price!

CD Mastering Combo Unit
This solution provides a Hard Drive or Jaz, and CD Recorder (or CD ReWritable) drive in one convenient enclosure. Create your CD content on the Hard Drive or Jaz drive - then master directly to the CDR. Add these prices to the internal drive prices listed. Also available for Macintosh - Call.



4GB Hard Drive (DUO4GB) **$299**
Jaz 2GB Removable (DUO2GBJAZ) **$359**

4x4x20 IDE CD ReWritable
*4x Record, 4x ReWrite, 20x Read, Ricoh mechanism
*Packet write compatible, 2MB cache
*Tray Loading, includes 5 4x rewritable disks

Drive Kit	$259	n/a
Complete Kit with ISA controller	$289	$379
Complete Kit with PCI controller	$319	n/a

4x4x16 SCSI CD ReWritable
*4x Record, 4x ReWrite, 16x Read, Yamaha mechanism
*Packet write compatible, 2MB cache
*Tray Loading, includes 5 4x rewritable disks

Drive Kit	$279	$369
Complete Kit with ISA controller	$329	$429
Complete Kit with PCI controller	$359	$459

4x4x20 SCSI CD ReWritable
*4x Record, 4x ReWrite, 20x Read, Ricoh mechanism
*Packet write compatible, 2MB cache
*Tray Loading, includes 5 4x rewritable disks

Drive Kit	$299	$389
Complete Kit with ISA controller	$349	$449
Complete Kit with PCI controller	$379	$479

Drive Kit - Includes drive, Mastering software for Win 95, 98 & NT, & free disks (requires controller)

Complete Kit - Includes drive, ISA or PCI controller, Mastering software for Win 95, 98 & NT & 5 free disks.

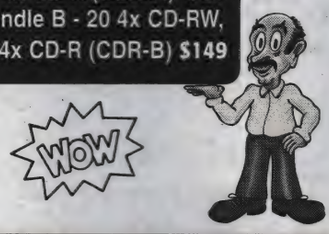
YAMAHA 4x4x16 CD ReWritable



- 4x record and rewrite speed
- 16x playback speed
- 2MB buffer, Tray loading
- Packet write compatible

SCSI Drive (YCRW4416S)	$219
SCSI Drive, Adaptec EZ CD Creator, Direct CD, 1 4x R/W disk (YCRW4416WOW)	$269
SCSI Drive, PCI card, Adaptec EZ CD Creator, Direct CD, 1 4x R/W disk (TCRW4416PDW)	$339
IDE Drive (YCRW4416E)	$219
IDE Drive, Adaptec EZ CD Creator, Direct CD, 1 4x R/W disk (YCRW4416EK)	$249

Special media bundles
with any CD-R or CD-RW drive
50 Disc spindle media (CDR74S) **Only $49.99**
Bundle A - 20 2x CD-RW, 20 4x CD-R (CDR-A) **$69**
Bundle B - 20 4x CD-RW, 20 4x CD-R (CDR-B) **$149**



YAMAHA 6x4x16 CD ReWritable

- ✔ SCSI Interface
- ✔ 2MB Buffer
- ✔ Packet Write
- ✔ Tray Load

Internal Drive Only $269

- Fast 4x duplication speed, built in CD reader. LCD panel w/controls.
- Built in hard drive allows you to save often used disk images.
- Duplicate almost any type of disk. If the CD-ROM can read it, you can duplicate it.
- Operating system independent.
- Connect to PC or Mac to produce master CD's
- Direct write from CD-ROM to CD-R
- Copy source CD to HDD once, then make 1-99 duplicates on the CD-R
- Create custom audio CD titles

FINALLY AN AFFORDABLE CD DUPLICATOR



ONLY $1149
#CDEZDUPE

Many more features: visit www.dirtcheapdrives.com/ezdupe for complete details

SCSI CD RECORDERS

Matsushita (PANASONIC) 4x8 Packet write, 1MB buffer
Int. drive (CDR7502B) / Ext. drive (CDR7502BX) $205/$290
Internal kit w/ controller, software, 1 disk (CDR7502BKP) $265
Teac 4x24 Packet write, 2MB buffer, tray load
Int. drive (CDR56S) / Ext. drive (CDR56SX) $219/$309
Internal kit w/controller, software, 1 disk (CDR56SK) $289
Plextor 4x12 Packet write, 2MB buffer, tray & caddy load
Int. drive (PXWRITER) / Ext. drive (PXWRITERX) $289/$379
Internal kit w/ controller, software, 1 disk (PXWRITERK) $336
Teac 6x24 Packet write, 2MB buffer, tray load
Internal with PCI controller, software, 1 disk (CDR56S/6P) $339
Sanyo 8x20 Packet write, 2MB buffer, tray load
Internal drive w/ software & 5 disks (CDR8X20S) $329
External drive w/ software & 5 disks (CDR8X20SX) $419
Plextor 8x20 Packet write, 4MB buffer, tray load
Internal drive with software & 1 disk (PXR820T) $459
External drive with software & 1 disk (PXR820TX) $549
Teac 8x24 Packet write, 4MB buffer, tray load
Internal with software, 1 disk (CDR8X24TK) $419

Check out our unbeatable deals on CD media on page 1 of this ad. We will not be undersold.

CD Recorder Headquarters

We have it all!

- ***Almost every drive made***
- ***All the popular mastering software***
- ***CD Media at THE BEST price anywhere***
- ***CD Duplicators*** (dirtcheapdrives.com/dupe)
- ***CD-R Jukeboxes*** (dirtcheapdrives.com/juke)
- ***DVD recorders*** (dirtcheapdrives.com/dvdram)

We custom configure to your needs.

SCSI CD REWRITABLE

Yamaha 4x4x16 Packet write, 2MB buffer, writes to CDR (write once) at 4x, CDRW (rewritable) at 4x, and reads at 16x
Int drive (YCRW4416S) / Ext drive (YCRW4416SX) $219/$339
Internal w/ software, 1 RW disk (YCRW4416WOW) $289
Plextor 4x2x20 Packet write, 2MB buffer, tray load
Int drive (PXW4220B) / Ext drive (PXW4220XB) $339/$429
Internal drive with software & 1 disk (PXW4220I) $379
Retail kit internal drive, software & 1 disk (PXW4220R) $415
Ricoh 4x4x20 Packet write, 2MB buffer, writes to CDR (write once) at 4x, CDRW (rewritable) at 4x, and reads at 20x
Int drive (MP7040S) / Ext drive (MP7040SX) $269/$359
Internal drive with software & 1 disk (MP7040SK) $309
Sanyo 8x2x20 Packet write, 2MB buffer, tray load
Int drive (CDR8X2X20S) / Ext drive (CDR8X2X20SX) $389/$479
Internal drive w/ software & 1 disk (CDR8X2X20SK) $429
Plextor 8x2x20 Packet write, 4MB buffer, tray load
Int drive (PXW8220R) Hot New Drive! $Call

IDE CD REWRITABLE

Mitsumi 4x2x8 Packet write, 2MB buffer, writes to CDR (write once) at 4x, CDRW (rewritable) at 2x, and read at 8x
Internal with software, 1 RW disk (CRMC4802EK) $195
HotPort external (CRMC4802EHP) $325

4X2X8 CD-RW Kit Only $195

JVC 2x2x24 Packet write, 2MB buffer, writes to CDR (write once) at 2x, CDRW (rewritable) at 2x, and reads at 24x
Internal with software, 1 RW disk (XRW2080K) $209
HotPort external (XRW2080HP) $339
Yamaha 4x4x16 Packet write, 2MB buffer, writes to CDR (write once) at 4x, CDRW (rewritable) at 4x, and reads at 16x
Internal drive tray load (YCRW4416E) $219
Internal with software, 1 RW disk (YCRW4416EK) $249
HotPort External w/ software, 1 RW disk (YCRW4416HPK) $409
Ricoh 4x4x20 Packet write, 2MB buffer, writes to CDR (write once) at 4x, CDRW (rewritable) at 4x, and reads at 20x
Internal drive tray load (MP7040A) $235
Internal with software, 1 RW disk (MP7040AK) $275
HotPort external (MP7040AHP) $405
Hewlett Packard 4x2x24 ReWritable
CD-Writer Plus 8100, Writes to CDR (write once) or CDRW (rewritable) media. Packet write, 1MB buffer, tray load. 1 CD-R & 1 CD-RW disk.
IDE Internal with software (C4392A) $269
HotPort external with software (C4392HP) $399
Hewlett Packard 4x4x24 ReWritable
CD-Writer Plus 8200, Writes to CDR (write once) or CDRW (rewritable) media. Packet write, 2MB buffer, tray load.
IDE Internal with software (C4414A) $299
HotPort external with software (C4414HP) $429
MicroSolutions Parallel Port CD-RW
4x2x8 CD Rewritable (BACKPACK4X8) $389



DIRT CHEAP

HARD DRIVES

Quantum (dirtcheapdrives.com/qtm)

ULTRA ATA/66 IDE Ultra ATA-66 PCI controller $69 (ULTRA66)					
4.3 GB	512k	5400	CR304300A	3	$107
6.4GB	512k	5400	CR306400A	3	$132
6.4GB	512k	7200	KA306400A	3	$154
8.4GB	512k	5400	CR308400A	3	$137
9.1GB	512k	7200	KA309100A	3	$168
10.2GB	512k	5400	CX310200A	3	$157
13.0GB	512k	5400	CX313000A	3	$168
13.6GB	512k	7200	KA313600A	3	$248
18.2GB	512k	7200	KA318200A	3	$318
20.5GB	512k	5400	CX320500A	3	$246
SCA & SCA ULTRA-2 Single Connector Attachment					
9.1GB	2MB	7200	KN309100SCA	3	$369
9.1GB	2MB	10,000	TN309100SCA	3	$515
18.2GB	2MB	7200	KN318200SCA	5	$699
18.2GB	2MB	10,000	TN318200SCA	5	$889
36.4GB	2MB	7200	KN336400SCA	5	$1345
36.4GB	2MB	10,000	TN336400SCA	5	$1599
ULTRA 160/m SCSI (160 MB/sec)					
9.1GB	6.9ms	7200	KN309100LW	5	$365
9.1GB	5ms	10,000	TN309100	5	$500
18.2GB	6.9ms	7200	KN318200W	5	$695
18.2GB	5ms	10,000	TN318200LW	5	$875
36.4GB	7.0ms	7200	KN336400LW	5	$1319
36.4GB	5.5ms	10,000	TN336400LW	5	$1579

WESTERN DIGITAL (dirtcheapdrives.com/wd)

ULTRA ATA-66 IDE Ultra ATA-66 PCI controller $69 (ULTRA66)					
4.3GB	512k	5400	WDAC14300	3	$120
6.4GB	512k	5400	WDAC26400	3	$130
8.4GB	512k	5400	WDAC28400	3	$135
9.1GB	2MB	7200	WDAC29100	3	$199
10.2GB	512k	5400	WDAC310200	3	$165
13.0GB	512k	5400	WDAC313000	3	$192
18.0GB	2MB	7200	WDAC418000	3	$299
20.4GB	2MB	5400	WDAC420400	3	$295

IBM (dirtcheapdrives.com/ibm)

ULTRA IDE	Cache	RPM	Model	Wty	Price
10.1GB	512k	5400	IBM10GP	3	$160
10.1GB	512k	7200	IBM10GXP	3	$200
14.4GB	512k	7200	IBM14GXP	3	$250
ULTRA ATA-66 IDE Ultra ATA-66 PCI controller $69 (ULTRA 66)					
9.1GB	2MB	7200	IBM9GXP	3	$213
13.5GB	2MB	7200	IBM13GXP	3	$240
15.0GB	2MB	5400	IBM15GP	3	$220
18GB	2MB	7200	IBM18GXP	3	$315
20.3GB	2MB	5400	IBM20GP	3	$305
22.0GB	2MB	7200	IBM22GXP	3	$350
25.0GB	2MB	5400	IBM25GP	3	$350
ULTRA SCSI					
4.5GB	512k	7200	IBM34560N	5	$209
9.1GB	512k	7200	IBM39130N	5	$339
18.2GB	2MB	7200	IDM318350N	5	$735
ULTRA WIDE SCSI					
4.5GB	512k	7200	IBM34560W	5	$199
9.1GB	512k	10,020	IBM39130W	5	$329
18.2GB	2MB	7200	IBM318350W	5	$709
ULTRA-2 SCSI (80MB/sec)					
9.1GB	512k	7200	IBM39130U2	5	$325
9.1GB	4MB	10,020	IDRVS9UZ4	5	$525
18.2GB	1MB	7200	IBM318350U2	5	$715
18.2GB	2MB	10,000	IDMVS18U2	5	$995
18.2GB	4MB	10,020	IDRVS18ZX	5	$879
36.4GB	4MB	7200	IDRHS36U2	5	$1255
46.4GB	2MB	10,000	IDMVS36U2	5	$1639

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The Data-Port V System

High quality construction. Gold plated connections. Features built in cooling fan, SCSI ID switch. Metal frame construction. Plastic cartridge with metal top and bottom covers.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
IDE with plastic cartridge (DP2200A)	$79	$99
SCSI with all metal cartridge (DP2200AM)	$99	$119
SCSI (DP2200S)	$85	$105
SCSI with open face cartridge (DP2200R)	$141	$161
ULTRA WIDE SCSI (DP2200UW)	$139	$159
EXTRA CARTRIDGE		
Plastic IDE (DPACART)	$39	$59
Metal IDE (DPACARTM)	$59	$79
SCSI (DPSCART)	$40	$60
SCSI open face (DPSARTR)	$96	$116
ULTRA WIDE SCSI (DPUCARAT)	$69	$89
EXTRA FRAME		
IDE (DPAFRAME)	$49	same
SCSI (DPSFRAME)	$54	same
ULTRA WIDE SCSI (DPUFRAME)	$80	same

HARD DRIVES

Seagate (dirtcheapdrives.com/sea)

- We have the best prices around on these hot drives.

ULTRA IDE	Cache	RPM	Model	Wty	Price
4.3GB	512k	5400	ST34310A	3	$110
8.6GB	512k	5400	ST38420A	3	$125
10.2GB	512k	5400	ST310232A	3	$160
13GB	512k	5400	ST313032A	3	$185
17.2GB	128k	5400	ST317242A	3	$199
ULTRA SCSI					
4.5GB	512k	7200	ST34520N	3	$210
4.5GB	512k	7200	ST34573N	5	$320
9.1GB	512k	7200	ST39140N	3	$325
9.1GB	512k	7200	ST39173N	5	$395
18.2GB	512k	7200	ST118273N	5	$685
ULTRA WIDE SCSI					
4.5GB	512k	7200	ST34520W	3	$210
4.5GB	512k	7200	ST34573W	5	$320
9.1GB	512k	7200	ST39140W	3	$325
9.1GB	512k	7200	ST39173W	5	$380
18.2GB	512k	7200	ST118273W	5	$689
ULTRA-2 SCSI (80MB/sec)					
4.5GB	1MB	7200	ST34573LW	5	$310
9.1GB	1MB	10,000	ST39175LW	5	$375
9.1GB	1MB	10,000	ST39103LW	5	$514
18.2GB	1MB	7200	ST318275LW	5	$705
18.2GB	1MB	10,000	ST318203LW	5	$835
36.4GB	1MB	7200	ST136475LW	5	$1390
36.4GB	1MB	10,000	ST136403LW	5	$2310
50.1GB	1MB	7200	ST150176LW	5	$2550
SCA & SCA Ultra-2 Single Connector Attachment					
9.1GB	1MB	7200	ST39175LC	5	$385
9.1GB	1MB	10,000	ST39103LC	5	$525
18.2GB	1MB	7200	ST318275LC	5	$715
18.2GB	1MB	10,000	ST318203LC	5	$845
36.4GB	1MB	7200	ST136475LC	5	$1395
36.4GB	1MB	10,000	ST136403LC	5	$2325
50.1GB	1MB	7200	ST150176LC	5	$2565
FC-AL Fibre Channel - Arbitrated Loop					
9.1GB	1MB	7200	ST39175FC	5	$385
9.1GB	1MB	10,000	ST39103FC	5	$525
18.2GB	1MB	7200	ST318275FC	5	$715
18.2GB	1MB	10,000	ST318203FC	5	$840
36.4GB	1MB	7200	ST136475FC	5	$1389
36.4GB	1MB	10,000	ST136403FC	5	$2325
50.1GB	1MB	7200	ST150176FC	5	$2560

Maxtor (dirtcheapdrives.com/max)

ULTRA IDE	Cache	RPM	Model	Wty	Price
4.3GB	512k	5400	M90432D	3	$112
8.4GB	512k	5400	M90845D	3	$120
10.0GB	512k	7200	M91024D	3	$190
13.0GB	512k	5400	M91303D	3	$185
17.2GB	512k	5400	M91728D	3	$230
20.4GB	512k	7200	M92048D	3	$325
ULTRA ATA-66					
6.5GB	2MB	5400	M92720D	3	$Call
8.4GB	2MB	5400	M90845D	3	$Call
10.2GB	2MB	5400	M91020D	3	$Call
13.6GB	2MB	5400	M91360D	3	$Call
20.4GB	2MB	5400	M92040D	3	$Call
27.0GB	2MB	5400	M92720D	3	$475

DRIVE ACCESSORIES

Our deals on drive accessories are second to none. Check these out!

Ultra ATA Accessories		
Cable Select Cable, no more changing Master/Slave switches!	(GSICSEL)	$12
Parallel Port External Case	(PPCASEHD)	$89
GSI External HotPort IDE Case, true IDE transfer rates	(HOTPORT)	$129
Ultra ATA-66 Accessories		
ATA-66 2 Drive 80 conductor cable	(CABLEAT66)	$9
ATA-66 PCI controller card	(ULTRA66)	$69
Ultra-2 SCSI Accessories		
Adaptec OCI Ultra-2 controller	(A2930U2W)	$189
Adaptec PCI Ultra-2 controller kit	(A2930U2WKIT)	$329
DPT PCI Ultra-2 RAID controller	(PM2554U2)	$409
External Active terminator	(ULTRA2TERMA)	$45
3" External Ultra-2 to Ultra-2 cable	(U2TOUS-3)	$45
Ultra Wide SCSI Accessories		
ADAPTEC PCI Ultra Wide controller	(A2940UW)	$199
Advansys PCI Ultra Wide controller	(ABP940UW)	$139
3" External Ultra Wide to Ultra Wide cable	(SC3TOSC3-3)	$40

LAPTOP DRIVES

TOSHIBA

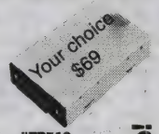
Capacity	Height	RPM	Model	Wty	Price
3.2GB	8.45mm	4200	MK3212MAT	3	$149
4.3GB	8.45mm	4200	MK4309MAT	3	$155
6.4GB	8.45mm	4200	MK6412MAT	3	$229
10GB	12.5mm	4200	MK1101GAV	3	$395

IBM

Capacity	Height	RPM	Model	Wty	Price
3.2gb	9.5mm	4200	DB203240	2	$169
4.8gb	9.5mm	4200	DB204860	2	$189
6.4GB	9.5mm	4200	DB206480	2	$259
8.1GB	12.5mm	4200	DB208100	2	$389
10.0GB	12.5MB	4200	DB210000	2	$395
14.1GB	17mm	4200	DC214000	3	$585

LAPTOP ACCESSORIES

Hard drive caddies for name brand laptops! Mount one of our 2.5" hard drives into the appropriate caddy and save hundreds of dollars!



IBM 310	**#TP310**
IBM 355, 360, 750, 755	**#THKPAD**
IBM 365 (up to 12.7mm high)	**#TP365**
IBM 380XD, 385X) (up to 17mm high)	**#TP600**
IBM 600 (up to 12mm high)	**#TP600**
IBM 701 (up to 12.7mm high)	**#TP701**
IBM 760 (up to 12.7mm high)	**#TP760**
IBM 770 (up to 17mm high)	**#TP770**
Compaq Contura (up to 12mm high)	**#CQCON**
Compaq Elite (up to 19mm high)	**#CQEL5000**
Compaq Armada (up to 12mm high)	**#CQA41**
Compaq Armada 7300	**#CQA73**
Compaq 1010 (up to 12.7mm high)	**#CQP1010**
NEC Versa (up to 19mm high)	**#NV**
NEC 2000, 4000, 6000 (up to 12mm high)	**#N4000**
NEC 2400, 2500 (up to 12mm high)	**#N24**
Toshiba TEC 500, 510 (up to 12mm high)	**#T500**
Toshiba 4700, 4800, TEC 700 (19mm high)	**#T700**
Toshiba 100, 110, 200, 210, 400, 430 (12)	**#T400**
Toshiba 660 (up to 12mm high)	**#T660**
Toshiba 1950 (up to 12.7mm high)	**#T1950**
Toshiba POR 610 (up to 12mm high)	**#T610**
Toshiba Portege 650 (up to 12.7mm high)	**#T650**
Toshiba Tecra 520, 530 Satellite Pro 440, 460, 480 (up to 12.7mm high)	**#T440EB**
Toshiba Tecra 520, 530 (up to 19mm high)	**#T520**
AST 800, 810, 900, 910 (up to 19mm high)	**#A900**
AST J series (up to 12mm high)	**#AJ**
HP 4000, 5000 (up to 19mm high)	**#H5000**
HP 5500 (up to 12mm high)	**#H5500**
Dell XPi (up to 17mm high)	**#DXP**
Gateway ColorBook (up to 12mm high)	**#G2000**
Hitachi Visionbook (up to 12.7mm high)	**#HVB+**

Let Dirt Cheap Drives Be Your Laptop Upgrade Source!

MicroSolutions



Microsolutions offers a complete line of plug and play external drives. These drives easily interface with your computer's parallel printer port. They also have a pass thru connector so you can use your printer at the same time.

32X CD-ROM	#BACKPAC32X	$209
32X CD-ROM w/sound	#BACKPAC32XS	$235
3GB Hard Drive	#BACKPACK3G	$299
6GB Hard Drive	#BACKPACK6G	$325
8GB Hard Drive	#BACKPACK8G	$349
4x2x8 CD Rewritable	#BACKPACK4X8	$349

2.5" Accessories

Diskmanager partitioning software (DISKMANAGER)	$20
2.5" IDE to 3.5" IDE adapter kit (IDEKIT-2.5)	$22
Parallel external drive case for 2.5" IDE (PPCASE2.5)	$89
PCMCIA external drive case for 2.5"IDE (PCMCIACASE2.5)	$139
PC CARD (PCMCIA) Accessories	
Internal PC Card reader for desktop PC (PCD220)	$99
External PC Card reader for desktop PC (PED220)	$129

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Keep your hard drive running cool. Extend the life of your drive.

Twin cooling fans are controlled by heat sensitive circuitry. (VHDFA) $30

DRIVES

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CALL M-F 8AM-8PM, SAT 9-3 CST

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Quantum

Quantum's Fireball drives are the perfect choice for Ultra ATA-66 hard drives. They offer great performance with a huge 512K buffer, and fast spindle speeds. These drives also feature the new Shock Protection System (SPS) that protects the drive heads in case of shock.

Our #1 IDE Drives

5400rpm Fireball

CR304300A	4.3GB	$107
CR308400A	8.4GB	$137
CX320500A	20.5GB	$246

7200rpm Fireball Plus

KA306400A	6.4GB	$154
KA309100A	9.1GB	$168
KA313600A	13.6GB	$248
KA318200A	18.2GB	$318

Ultra-66 controller and cable only $60
with the purchase of one of these drives.



Quantum
13GB IDE Hard Drive $170 (CX313000A)

SCSI Data Transfer Now 160MB/sec!

Quantum raises the bar again with the release of the new blistering fast Atlas IV Ultra/160m interface drives.

- 160MB/sec data transfer rates, seek times as low as 5ms
- 21MB/sec maximum sustained data throughput
- Shock Protection System (SPS) Huge 2MB data buffer
- Backward compatibility with Ultra-2 & Ultra SCSI cards

ZOOM!

	7,200rpm	10,000rpm
9.1 GB	$365 KN309100LW	$500 TN309100LW
18.2GB	$695 KN318200LW	$880 TN318200LW
36.4GB	$1319 KN336400LW	$1579 TN336400LW

ATTENTION HIGH VOLUME PURCHASERS

Dirt Cheap Drives is committed to being the #1 source for drive products. This is just a sampling of our volume deals. Call us for the latest. We welcome bids.

Building or upgrading several computers at once? Take advantage of these great buys.

	Qty 5-9	Qty 10-24	Qty 25+
4GB IDE (HD4G-5/10)	$104	$101	$99
8GB IDE (HD8G-5/10)	$136	$133	$131
12GB IDE (HD12G-5/10)	$183	$180	$178
9GB U/W SCSI (HD9G-5/10)	$319	$315	$313
40X IDE CD-ROM (CD40X-5/10)	$54	$50	$48
52X IDE CD-ROM (CD52X-5/10)	$117	$114	$111
6X IDE DVD-ROM (DVD6X-5/1/)	$126	$124	$119
100MB IDE Zip (ZIP100A-5/10)	$79.8	$77.9	$76
1.4MB Floppy (F14-5/10)	$22	$19	$17
USR 56K modem (9USR56-5/10)	$107	$105	$103



Visit our Web site for all your data storage needs. We have even the most hard to find components.

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- Tape Drives
- Enclosures
- Cables
- RAID
- CD Recorders
- CD Rewritable
- Controllers
- Laptop Upgrades
- Plus MUCH more!

It's really simple. Nobody has better prices than Dirt Cheap Drives. We take care of our customers with the best prices on the best products in the industry.

"The Best Deals I've ever seen!"

Whether you're buying one drive or a thousand, we're the place to call. We have virtually every drive available and a massive selection of accessories. From mounting hardware to assembled multidrive RAID towers and everything in between. Call us.



DIRT CHEAP

DVD HEADQUARTERS

Complete DVD Kits

Complete kits offer all the hardware to start reading DVD disks.

SMART STORAGE SOLUTIONS
- 6X kit complete with MPEG-2 decoder
- 6X DVD reader, 110ms • 32X CD ROM, 85ms
- IDE interface • Supports CDR and CD-RW media

Complete Kit (SSSDVD6KIT) $219

CREATIVE LABS
- Encore DVD 6X kit includes: 180ms 6X DVD drive
- Reads CDs at 24X, 120ms • MPEG-2 decoder
- DVD Titles (CLDVD6KIT) $219

SAMSUNG
- Complete kit includes: 110ms 6X DVD drive
- Reads CDs at 32X, 85ms • MPEG-2 decoder
- DVD Title (SAMDVD6) $189

DVD-RAM Drives

Store up to 5.2 GB of data on a single removable cartridge.

TOSHIBA
- DVD-RAM 1X, 120ms • DVD-ROM 2x, 210 ms
- CD-ROM 16x, 140ms • 256K buffer
- Reads DVD-ROM, DVD-R, DVD-Video, Video CD, CD-ROM, CED-Audio, CD-R, and CD-RW disks.

Bare SCSI drive (SDW1101) $429

PANASONIC
- DVD-RAM 1x, 120ms • DVD-ROM 2x, 85ms
- CD-ROM 20x, 85ms • 2MB buffer
- Reads DVD-ROM, DVD-R, CD-RW, and PD disks.

Vare SCSI drive (LFD101U) $549

DVD RAM MEDIA

5.2 media (DVDRAMDISK) 1-4/5-9/10+ $40/$37/$35

DVD Drives & Accessories

DVD Drives & Accessories

TOSHIBA

6X DVD reader, 110ms • 32X CCD ROM, 85ms
Bare IDE Drive (SDM212) $150

SAMSUNG
- 6X DVD reader, 110ms • 32X CD ROM, 85ms

Bare IDE Drive (SAMDVD6BARE) $120

PIONEER
- 4.8X DVD reader, 120ms • 32X CD ROM, 90ms

Bare IDE Drive (DVD103) $135
Bare SCSI Drive (DVD303) $175

SIGMA DESIGNS HOLLYWOOD
- BEST SELLING PCI BASED MPEG-2 decoder board $99

WAVELINK PC TO TV TRANSMITTER
- View DVD movie titles on TV without the use of wires.
- 2.4GHz signal penetrates walls, floors, and ceilings.
- Operates up to 300 feet away.
- Sends and receives crisp color and stereo audio.
- Also works with many other video/audio sources.

(PCTOTV) $169 or $159 with any DVD drive

SCSI CD ROM

Speed	Brand	Model	ms	Buffer	Int	Ext
32X	NEC	CDR1910	85	128K	$81	$171
32X	TEAC	CD532S	85	128K	$91	$181
32X	PLEXTOR	PS32TS(TRAY)	85	512K	$105	$195
32X	PLEXTOR	PX32C(CADDY)	85	512K	$145	$235
40X	TOSHIBA	XM6401B	79	256K	$92	$182
40X	PLEXTOR	PX40TS	85	512K	$135	$225
WIDE SCSI CD ROM						
40X	PLEXTOR	PX40TSUW	85	512K	$165	$275

ACCESSORIES

Universal sound cable (AUDIOMIX)
CD driver software for Macintosh (RAPIDPD) $19
CD Caddies (CDCADDY) 5-19 $5.9 20+ $3.4
Pioneer 6 disk magazine (DRMA600) 2-4 $29 5+ $24

We've been here - we're gonna be here.



We've been around for a long time. Over the last 12 years, we've seen a lot of competitors come & go. Many of our customers tell their friends about us. A big portion of our business is from repeat customers and referrals. Thank you for your business!

MULTIDRIVE CD TOWERS

We offer the best deals in the industry on multidrive CD ROM drive towers. From 2 drives to 14 drives and beyond, call us with your needs. We'll be glad to meet your specifications.



SCSI Towers			***4 Drives***	***7 Drives***
Plextor	32X	85ms	$609	$1049
Toshiba	40X	79ms	$299	$859
Plextor	40X	85ms	$719	$1249
Plextor	40X	85ms	$919	$1609

Ethernet CD ROM Towers
- Can be used simultaneously from Win 95, NT, OS/2, and UNIX platforms using Novell Netware, Microsoft Networks, and NFS



	7 Drive 10baseT	7 Drive 10/100	13 Drive 10baseT	13 Drive 10/100
Plextor-32X	$1699	$1919	$2999	$3119
Toshiba 40X	$1499	$1719	$2629	$2749
Plextor-40X	$1909	$2129	$3399	$3519

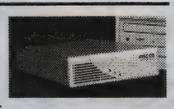
IDE CD ROM

Speed	Brand	Model	ms	Buffer	Drive
32X	Teac	CD532E	84	128K	$59
40X	Mitsumi	CRMCFX40X	84	128K	$61
40X	Toshiba	XM6502B	85	256K	$63
40X	NEC	CDR3000	75	128K	$64
48X	Memorex	CD48X	90	128K	$68
52X	Kenwood	UCR412	90	2MB	$118
56X	Memorex	CD56X	90	128K	$75

ACCESSORIES

Buy a CD drive & sound card & get a FREE audio cable.
PCI 128 Sound Blaster (SBPCI128) $75
New Sound Blaster Live PCI 256 (SBPCI256) $182
New Sound Blaster Live PCI 256 Value (SBI256VALUE) $100
Universal sound cable (AUDIOMIX) $9
IDE CD ROM case with card and cable (HOTPORT) $139
IDE CD ROM case for parallel printer port (PPCASECD) $89
IDE CD ROM case for PCMCIA port (PCMCIACD) $139

FISC-CD (Ethernet IDE CD Controller)



- Connect up to 8 IDE CD ROMS (in increments of 2) directly to your Ethernet network without a computer. Auto switches between Ethernet and Fast Ethernet connection. Features 8MB RAM buffer, user upgradable to 72MB through SIMM sockets. FISC CD offers the most complete protocol support in the industry: Windows NT, Netware, Unix, Web server, and Macintosh. This controller is internet ready with built-in WWW server function. Mounts in a 5.25"HH drive bay. (FISC-CD) $749

One of the Best Buys in the Industry.
8 Drive Auto Switching Network CD Tower



Pre-assembled 8 drive tower. Uses FISC-CD controller listed above.

40X Drive tower (SSS40X8N) $1499

Super Sounding Speaker Sets



Professional speakers with Bose style swivel speakers and separate subwoofer. "Delivered the best listening experience." *Computer Shopper*
25 Watt (SPEAKERJR) $89 35 Watt (SPEAKERPRO) $119

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NETWORK STORAGE

Ethernet CD Tower Storage

Having access to multiple drives over an Ethernet network has never been easier. Call our data storage experts today.

Axis Storepoint HD (Ethernet Iomega Jaz)
- HD stand alone network storage server allows you to connect up to 7 Jaz (1 or 2 GB) drives. (AXISHD) $799
- HD/T tower module mounts in a tower case & occupies one 5.25" hh drive bay. Supports up to 7 Jaz drives (AXISHD/T) $799
- HD/4 Jaz pre-assembled Jaz tower with 4 GB Jaz drives. Features built-in StorePoint HD Ethernet support. Includes 4 pieces of media (AXISHD/4) $1259

Axis StorePoint CD (Ethernet SCSI CD Controller)
- Allows you to connect your SCSI CD ROM drives directly to your Ethernet or Token Ring network without a computer. Stand alone has its own external enclosure. Tower module mounts in a tower case & occupies 1 5.25" HH drive bay.

Enclosure	Network	Max # Drives	Item #	Price
Stand-alone	Ethernet	7	AXISCD-E	$479
Stand-alone	TokenRing	7	AXISCD-TR	$579
Tower Module	Ethernet	7	AXISCD/T-E	$479
Tower Module	Token Ring	7	AXISCD/T-TR	$599
Tower Module	Ethernet	14	AXISCDT2E	$659
Tower Module	Ethernet or Fast ethernet	7	AXISCDT1000	$659
Tower Module	Ethernet or Fast ethernet	14	AXISCDT2EC	$799

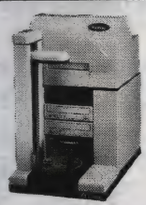
PORTABLE CD ROM

- PCMCIA (PC Card) Type II or III.
- Only 6.72" L x 5.92"W x .88"H
- Fast 24x, 150ms speed
- Audio jack for earphone
- Wall transformer or battery pack

(PCMCIA24X) **$185**



CEDAR CD DUPLICATORS



Attaches to your PC or Mac "SCSI Port. 50 Disc auto loader, lets you load 50 discs & walk away. 4X CD record speed CDs are verified on separate 8X drive. Works with most operating systems.

1 CD-R drive #CEDARUP50 $4899
1 CD-R drive & CD Printer #CEDARUP50P $5969
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TAPE BACKUP

Seagate

Minicartridge
• Includes 1 FREE tape, cable, manual, Win/NTWS backup software

ATAPI (IDE)	Internal	External	Extra Tapes
TR4 4-8gig (STT28000A)	$195	$325	$25 (TR4)
TR5 10-20gig (STT220000A)	$379	$509	$43 (TR5)
SCSI			
TR4 4-8gig (STT28000N)	$219	$299	$25 (TR4)
SCSI RCVT Includes NT & Netware server software only. Features hardware data compression.			
TR4 4-8gig (STT28000NC)	$359	$449	$25 (TR4)
TR5 10-20gig (STT220000N)	$519	$609	$43 (TR5)

HEWLETT® PACKARD

Minicartridge
Includes 1 FREE tape, manual, , DOS/Win backup software

SCSI	Internal	External	Extra Tapes
TR5 10-20gig (C4394A)	$419	$509	$43 (TR5)

INDIGITA 6GB
SCSI 4mm DAT tape drive includes software that allows the drive to be used as a standard disk drive under Windows (IDT2500) $479

***Check us out for the best prices in the industry on backup media:* WWW.DIRTCHEAPDRIVES.COM**

Exabyte®

7-14Gig	8mm,120MB/min, ELIANT820	$1999 $15(DAT160M8MM)
20-40Gig	8mm,360MB/min, EXB8900	$2369 $80(AME170)
70-140Gig	8mm, 60MB/min, EXB10H	$2689 $15(DAT160M8MM)

HEWLETT® PACKARD

We include 5.25" mounting hardware with HP DAT!

4-8Gig	DDS-2, 60MB/min, C1599AAI	$679 $10(DAT120M)
12-24Gig	DDS-3, 120MB/min, C1554AI	$899 $22(DAT125M)
72-144Gig	DDS-3, 120MB/min, C5648A	$2279 $22(DAT125M)

Seagate

We include 5.25" mounting hardware with Seagate DAT!

2-4Gig	DAT-DC,66MB/min,STD240000N	$559 $10(DAT90M)
4Gig	Mini, 30MB/min,STT28000N	$219 $25(TRA)
4-8Gig	Mini, 60MB/min,STD28000NC	$365 $25(TR4)
4-8Gig	DDS-2 DAT, 66MB/min, STD28000N	$625 $10(DAT120M)
10-20Gig	Mini, 100MB/min,STT2200BARE	$439 $43(TR5)
12-24Gig	DDS-3 DAT, 132MB/min, STD224000N	$849 $22(DAT120M)
25-50Gig	AIT,360MB/min, STASTA250000W	$2169 $87(AIT170MTAPE)
48-96Gig	DDS-2 DAT, 66MB/min, STL496000N	$2159 $10(DAT120M)

SONY

We include 5.25" mounting hardware with Sony DAT!

4-8Gig	DDS-2 DAT, 90MB/min, SDT7000AI	$549 $10(DAT120M)
12-24Gig	DDS-3 DAT, 144MB/min, SDT9000AI	$749 $22(DAT125M)
20-40Gig	DDS-4 DAT, 288MB/min, SDT10000AI	$1129 $CALL(DAT150M)
12-96Gig	DDS-2 DATloader, 90MB/min, TSL9000	$2159 $22(DAT125M)

Quantum

Find a lower price? Give us a call.

20-40GigDLT,180MB/min, DLT4000	$1799 $68(DLT4)
External, our case, DLT4000X	$1899 $68(DLT4)
External, Quantum case, DLT4000QX	$2059 $68(DLT4)
35-70GIGDLT, 600MB/min,DLT7000	$4575 $68(DLT4)
External, our case, DLT7000X	$4675 $68(DLT4)
External, Quantum case, DLT7000QX	$4779 $68(DLT4)

DLT MEDIA SALE	1-4	5-9	10-49	50+
DLTIII 10-20GB (DLT3)	$38	$35	$34	$31
DLTIII XT 15-30GB (DLT3XT)	$40.5	$38	$36	$34
DLTIV 20-40GB (DLT4)	$74	$70	$68	$66
DLT Cleaning tape (DLTCLEAN)	$41	$40	$38	$36

Limited Time Offer
Seagate 10-20GB IDE tape drive with backup software and 1 tape (STT220000A) $339 SAVE $40

HOT NEW 30GB Tape Drive
New advanced Digital Recording (ADR) tape drives offer an excellent value. These drives store 15GB native or up to 30GB of compressed data. These drives include awesome backup software. It even includes a "drag and drop" software that allows you to use this drive as a standard disk drive under Windows.

15-30GB internal IDE w/software (OSEOIDE)	$279
15-30GB internal SCSI w/software (OS30SCSI)	$459
Tapes for above (ADR30)	$35

MicroSolutions

Parallel Port Drives

32X CD ROM (BACKPAC32X)	$199
32X CD ROM w/sound (BACKPAC32XS)	$235
3GB Hard Drive (BACKPACK3G)	$279
6GB Hard Drive (BACKPACK6G)	$339
8GB Hard Drive (BACKPACK8G)	$369
4X2X8 CD Rewritable (BACKPACK4X8)	$389

WE HAVE THE BEST DEALS ON THE WEB!
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BACKUP SOFTWARE

Seagate Backup Exec

Windows 95 & 98 (SBEWDWD)	$69
Windows NT workstation (SBENTWD)	$99
Windows NT single server (SBENTSE)	$419
Windows NT multi server (SBENTME)	$879
Small Business Server Suite (SBENTSB)	$429
Netware single server & 25 users (SBENW25)	$319
Netware single server & unlimited users (SSBENWSE)	$409
Netware multi server (SBENWME)	$879

Indigita
TapeTrax software allows most SCSI tape drives to be used as a standard disk drive under Win95 (TAPETRAX) $89

NovaStor
NovaWorks CD contains backup software for DOS, Win 3.1, Windows 95, Win NT, and OS/2

Compatible with SCSI, IDE, and QIC drives (NOVACD)	$65
Novell NLM single server (NOVANWSE)	$229
Novell NLM single server and 25 users (NOVANW25)	$229
Novell NLM multi server & unlimited users (NOVANWUNL)	$749
NT single server (NOVANTSE)	$229
NT server and unlimited users (NOVANT)	$379
NT unlimited servers & unlimited users (NOVANTUNL)	$759

SONY

Our best selling tape drives.

12-24GB DDS-3 4mm DAT Drive
Backup up to 24GB of compressed data at speeds up to 144MB/min. This is the fastest drive in its' class.
SCSI drive with 5.25" mounting hardware (SDT090000AI) $749

20-24GB DDS-4 4MM DAT Drive
Back up to 40GB of compressed data at speeds up to 288MB/min. SCSI-3 Ultra Wide interface. Huge 10MB data buffer. Backwards read compatible with DDS 1,2, and 3.
SCSI drive w/5.25" mounting hardware (SDT1000AI) $1129

REMOVABLE MEDIA

iomega SUPER SALE! iomega

100MB ZIP

Internal IDE for PC (ZIP 100A)	$89
Internal IDE for PC 5 pack (ZIP100A-5)	$399
Internal IDE for PC 10 pack (ZIP100A-10)	$779
External SCSI for PC or Mac (ZIP100)	$119
External for PC parallel port (PPZIP100)	$119
External for USB port (ZIP100USB)	$149
Internal for Toshiba, Compaq, IBM notebooks	$189
100MB disks (ZIP 100C) Qty 2-9/Qty 10+	$13/$10.5

NEW 250MB ZIP

External SCSI for PC or Mac (ZIP250)	$187
External for PC parallel port (PPZIP250)	$187
250MB disks (ZIP250C) QTY 2-9/QTY 10+	$19/$17

2 GIG JAZ
• Backwards compatible with Jaz 1 Gig disks.
10ms read, 12ms write, 5394rpm, 512 buffer.

Internal SCSI (JAZ21)	$315
External SCSi (JAZ2X)	$315
1GB Disks (JAZC1GIGPC) Qty 2-4/5-9/10+	$80/$77/$75
2GB Disks (JAZC2GIGPC) Qty 2-4/5-9/10+	$85/$80/$77
JAZ ACCESSORIES	
ISA Controller (JAZIETISA)	$89
PCI Controller (JAZIETPCI)	$95
PCMCIA Type II Adapter (JAZPCMCIA)	$109
Parallel Adapter Jaz Traveller (JAZPARALLEL)	$49

ORB NEW 2.2GB removable cartridge drive. Prices include 1 free disk.

Internal IDE (ORBIDE) /Internal SCSI (ORBSCSI)	$175
External SCSI (ORBSCSIX) /Parallel External (ORBPP)	$189
Extra Disks (ORBDISK)	$29

OPTICAL DRIVES

650 MB PD Media (TJ650PD) 2-4/5-9/10+ $26/22/20

MAXOPTIX

2.6 Gig • (1.3 Gig, 650MB, r/w compatible) SCSI-2, 1MB buffer, 19ms
Internal (T-52600) / External (T5-2600X) $1029/$1129

5.2 Gig • (2.6GB,1.3GB,1GB,650MB compatible) SCSI-2, 4MB buffer
Internal (T6-5200) /External (T6-5200X) $1499/$1599
Maxoptix 5.2 Media 1-4/5-9/10+ (MAX5.2) $83/$80/$77

SONY

5.2 Gig • (2.6GB,1.3GB,650MB r/w compatible) SCSI-2, 4MB buffer
Internal (SMOF551)/External (SMOF551X) $1499/$1599

***TEIJIN OPTICAL MEDIA* - Lifetime Warranty**

Size	Cat#	Description	2-4	5-9	10+
128MB	TJ128	3.5", 512K	$13	$9	$7
230MB	TJ230	3.5", 512K	$14	$10	$8
640MB	TJ640	3.5", 2048K	$21	$17	$15
1.3Gig	TJ1.3	5.25", 1024K	$26	$22	$20
2.3Gig	TJ2.3	5.25", 512K	$30	$26	$24
2.6 Gig	Th2.6	5.25", 1024K	$33	$29	$27
5.2Gig	TJ5.2	5.25", 2048K	$70	$68	$64

Call or visit our web site for media not listed.

Dirt Cheap Drives won't be undersold! We are proud to offer the lowest rates on the web. We dare you to shop and compare our dirt low prices with the competition. If you find a cheaper deal, call us. We've been in business over for more than 12 years.



DIRT CHEAP

Removable Drive Brackets

Turn any 3 1/2" drive into a removable

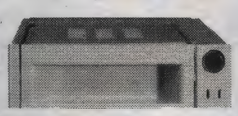
Possible applications:

Data Security:
- Hard drives can be easily removed and locked away.
- Backup from an existing drive to a removable hard drive for THE FASTEST backup speed available, then remove and store it away.

Data Transfer:
- Hard drives are much faster than other removable media solutions, moving your data to a removable hard drive and taking it to a service bureau is much faster than other solutions.
- When working on large files on the office computer, transfer to the computer at home is easily accomplished in seconds.

Drive/data Sharing:
- All drives of the same interface family can easily be moved among multiple computers.
- A single copy of software can be loaded onto a drive and moved form one computer to the other.
- Separate drives can be loaded with different operating systems and you can boot off of that operating system.

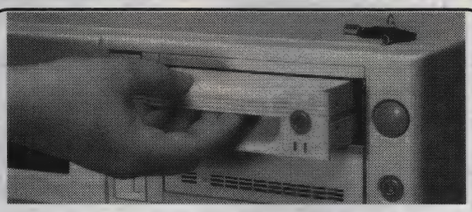
Easy Upgrade/Replacement:
- To upgrade your drive, just unplug and install the new drive. It's so easy, there's no need to open the computer.
- Easy drive exchange makes these drives perfect for RAID applications.



Transfer Removable Drive Brackets

SCSI ID switch, and gold plated connectors. Plastic construction with metal top and bottom covers on cartridge.

COMPLETE KIT	
Includes 1 frame, and 1 cartridge	
IDE with plastic cartridge (TRANSIDE)	$55
SCSI with plastic cartridge (TRANSSCSI)	$59
EXTRA CARTRIDGE	
Plastic IDE (TRANSIDECA)	$33
Plastic SCSI (TRANSSCSICA)	$33
EXTRA FRAME	
IDE (TRANSIDEFR)	$37
SCSI (TRANSSCSIFR)	$40



DATA-PORT V Removable Drive Brackets

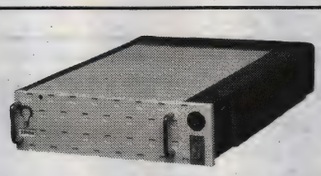
High quality construction. Gold plated connections. Features built in cooling fan, SCSI ID switch. Metal frame construction. Plastic cartridge with metal top and bottom covers.

COMPLETE KIT	PLATINUM	BLACK
Includes 1 frame, and 1 cartridge		
IDE with plastic cartridge (DP2200A)	$79	$99
SCSI with all metal cartridge (DP2200AM)	$99	$119
SCSI (DP2200s)	$85	$105
SCSI with open face cartridge (DP2200R)	$141	$161
ULTRA WIDE SCSI (DP2200UW)	$139	$159
EXTRA CARTRIDGE		
Plastic IDE (DPACART)	$39	$59
Metal IDE (DPACARTM)	$59	$79
SCSI (DPSCART)	$40	$60
SCSI open face (DPSARTR)	$96	$116
ULTRA WIDE SCSI (DPUCARAT)	$69	$89
EXTRA FRAME		
IDE (DPAFRAME)	$49	same
SCSI (DPSFRAME)	$54	same
ULTRA WIDE SCSI (DPUFRAME)	$80	same

DATA-PORT VI Removable Drive Brackets

High quality construction. Gold plated connections. Features built in cooling fan with audible fan failure alarm, SCSI ID switch. Metal frame and cartridge construction.

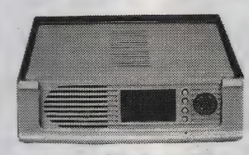
COMPLETE KIT		
Includes 1 frame, and 1 cartridge		
SCSI (DP2200SM)	$95	$115
ULTRA WIDE SSSI (DP2200UWM)	$159	$179
SCA (uses SCA drives) (DP2200SCA)	$159	179
EXTRA CARTRIDGE		
SCSI (DPSCARTM)	$60	$80
ULTRA WIDE SCSI (DPUWCARTM)	$89	$109
SCA (uses SCA drives) (DPSCACART)	$89	$109
EXTRA FRAME		
SCSI (DPSFRAMEL)	$54	same
ULTRA WIDE SCSI (DPUWFRAMEA)	$89	$109
SCA (DPSCAFRAME)	$80	same
ACCESSORIES for DataPort V and VI		
Cover plate to cover opening when cartridge is removed (DPFPLATE)	$10	$12



Smart Storage Removable Drive Brackets

- Extremely rugged, all metal construction.
- Grab handles for easy removal and insertion.
- Industry standard 5 1/4" half height form factor.
- Gold plated connectors rated at 10,000 insertions.
- Built in premium ball bearing cooling fan.
- Key locking drive to prevent unwanted removal.
- LED displays drive ID on SCSI units, and Master/Slave configuration on IDE.
- Each SCSI drive module has an easy to access SCSI ID selector.

COMPLETE KIT	
Metal IDE (SSSDIAKIT)	$99
Metal IDE 1" opening (SSSDIA1KIT)	$105
Metal SCSI (SSSDISKIT)	$105
Metal SCSI 1" opening (SSSDIS1KIT)	$111
Metal 1.6" opening (SSSDIS6KIT)	$111
Metal WIDE SCSI (SSSDIWKIT)	$149
Metal WIDE SCSI 1" opening (SSSDI1KIT)	$155
Metal WIDE SCSI 1.6" opening (SSSDIW6KIT)	$155
EXTRA CARTRIDGE	
Metal IDE (SSSDICA1)	$59
Metal IDE 1" opening (SSSDICA1)	$65
Metal SCSI (SSSDICSS)	$60
Metal SCSI 1" opening (SSSDICS1)	$66
Metal WIDE SCSI (SSSDICWS)	$79
Metal SCSI 1.6" opening (SSSDACSD)	$66
Metal WIDE SCSI (SSSDICWS)	$79
Metal WIDE SCSI 1" opening (SSSDICW1)	$85
Metal WIDE SCSI 1.6" opening (SSSDICWD)	$85
EXTRA FRAME	
Metal IDE (SSSDIFA)	$59
Metal SCSI (SSSDIFS)	$69
Metal WIDE SCSI (SSSDIFW)	$89
ACCESSORIES	
Cover plate to cover opening when cartridge is removed (SSSFPLATE)	$15



DATA-PORT 8 Removable Drive Bracket

High quality construction. Gold plated connections. Features 2 built in cooling fans (one front, one rear), SCSI ID switch. Metal frame and cartridge construction. LCD display shows time, drive temperature, SCSI ID, and voltage.

COMPLETE KIT	
Includes 1 frame, and 1 cartridge	
ULTRA WIDE SCSI (DP2200W8)	$159
EXTRA CARTRIDGE	
ULTRA WIDE SCSI (DP8CART)	$79
EXTRA FRAME	
ULTRA WIDE SCSI (DP8FRAME)	$89



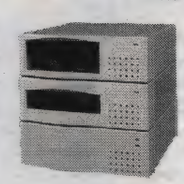
CARRYING CASE

Fits all removable cartridges. Great for save transportation and storage once the cartridge is removed. Internal padding for shock protection.

Plastic (DPCASE)	$35
Metal case (DPCASEM)	$49

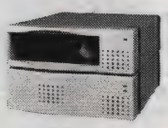
DRIVE CASES

Models available with redundant hot swap power supplies.



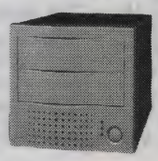
3.5" Drive Case

SCSI closed face (3.5CASE)	$75
SCSI 1" open face (3.5CASE1)	$75
SCSI 1.6" open face (3.5CASE1.6)	$75
Wide SCSI closed face (3.5CASEW)	$109
Parallel/IDE closed face (PPCASEHD)	$89
Parallel/IDE 1" open face (PPCASEHD)	89
PCMCIA/IDE closed face (PCMCIA3.5)	$319
PCMIA/IDE 1" open face(PCMCIA3.51)	$139



5.25" Drive Case

SCSI closed face (HHCASET)	$75
SCSI open face (HHCASEOPENT)	$75
Wide SCSI closed face (HHCASETW)	$109
Ultra-2 SCSI closed face (HHCASETU2)	$129
Parallel/IDE closed face (PPCASEDE)	$89
Parallel/IDE open face (PPCASECD)	$89
PCMCIA/IDE closed face (PCMCIACD)	$139
PCMCIA/IDE open face (PCMCIACD)	$139



Two Drive Case

Holds 2 half height or 1 full height drive.

SCSI (FHCASE)	$109
Wide SCSI (FHCASEW)	$169
Ultra-2 SCSI (FHCASE)	$169
Ultra-2 SCSI (FHCASEU2)	$189
Dual 3.5" drive model (not shown)	
SCSI (DUAL3.5CASE)	$99
Wide SCSI (DUAL3.5CW)	$159
Ultra-2 SCSI (DUAL3.5CU2)	$179



Four Drive Case

Holds 4 half height or 2 full height drives.

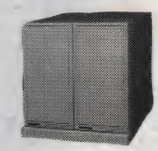
SCSI (DUALCASET)	$189
Wide SCSI (DUALCASETW)	$269
Ultra-2 SCSI (DUALCASEU2)	$299



Eight Drive Case

Holds 8 half height or 4 full height drives.

SCSI (TOWERCASET)	$369
Wide SCSI (TOWERCASETW)	$469
Ultra-2 SCSI (TOWERCASEU2)	$529



Fourteen Drive Case

Holds 14 half height or 6 full height drives.

SCSI (14BAYCASE)	$599
Wide SCSI (14BAYCASEW)	$749
Ultra-2 SCSI (14BAYCASEU2)	$889



Eighteen Drive Case

Holds 18 half height or 8 full height drives.

SCSI (18BAYCASE)	$839
Wide SCSI (18BAYCASEW)	$1039
Ultra-2 SCSI (18BAYCASEU2)	$1219



Twenty Drive Case

Holds 20 half height or 10 full height drives.

SCSI (20BAYCASE)	$1499
Wide SCSI (20BAYCASEW)	$1719
Ultra-2 SCSI (20BAYCASEU2)	$1919



Hot Port External IDE Case

The perfect way to turn any IDE drive into an external. Great for Hard drives, CD ROM, CD-R, CD-RW, tape, optical, DVD, or any other IDE drive. Includes IDE controller card, cable, and case. Power goes through the data cable so no awkward power cables. Perfect for sharing drives among multiple computers. Similar to an external parallel port case but TWICE as fast. This solution is also cheaper than SCSI. (HOTPORT) $129

Extra HotPort controller (HOTCT) $59

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DRIVES 800-475-7476

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CONTROLLERS

DPT
Distributed Processing Technology

Other DPT products available. Call for pricing.

PM2554U2 PCI Ultra-2 with RAID 0, 1 support	$409
PM2554U2-2 twin channel of above	$549
PM2554U2-3 three channel above	$669
PM1554U2 PCIUltra-2 w/RAID 0,1,5,0+1,0+5,&4MB	$479
PM2654U2 R16Ultra-2 w/RAID 0,1,5,0+1,0+5,&16MB	$719
PM2654U2R26 twin channel of above	$849
PM2654U2RF16M Fibre Channel & U2 SCSI RAID	$1089
SM4050/16 16MB ECC EDO Memory	$99
SM4050/64 64MB ECC EDO Memory	$319
PM3755F-16M Smart RAID 64bit Fibre channel	$1859

gsi

1533-1C SUPPORTS 2 IDE DRIVES	$35
1533-2C SUPPORTS 4 EIDE	$49

ARCO COMPUTER PRODUCTS, INC.

- Hardware RAID 1 (mirroring) works with most operating systems.
- Jumperless design, 100% data redundancy, 4 drive support
- Works off of existing IDE controller

ISA (ARDUPLISK) $209 PCI (ARDUPLIPCI) $209

ADVANSYS

High performance Bus Mastering SCSI, Adaptec compatible

ABP940UW PCI 32 BIT ULTRA WIDE SCSI	***$139***
ABP980U PCI 32 Bit Ultra SCSI 4 Channel for 28 drives!	$379

PROMISE TECHNOLOGY, INC.

ULTRA66	PCI, Supports New Ultra-66 IDE drives	$59
ULTRA33	PCI, Supports Ultra IDE drives	$49
EIDEPRO	ISA, Supports 4 IDE, & High speed 10	$59
FASTRAK	PCI, IDE RAID controller	$99

adaptec

		BARE	KIT
1520	ISA 16 Bit SCSI, Floppy	$74	$113
1542	ISA 16Bit Busmaster SCSI, Floppy	$189	$245
2940U	PCI 32 Bit Ultra SCSI (Bus Master)	$153	$229
2940UW	PCI 32 Bit Ultra WIDE SCSI (Bus Master)	$199	$265
2930U2W	PCI 32 Bit Ultra-2 SCSI (Bus Master)	$185	$265
2940U2W	PCI 32 Bit Ultra-2 SCSI (Bus Master)	$2295	$330
1505	ISA 16 Bit SCSI (no hard drive support)		$55
2742W	EISA 32 Bit WIDE SCSI, Floppy		$369
2906E	PCI 32 Bit SCSI (For PC or Mac)		$62
2920	PCI 32 Bit WIDE Diff, SCSI (Bus Master)		$389
T1350	EPP Parallel to SCSI adapter		$105
T1450B	PCMCIA to SCSI (Win95 only)		$99
T1460A2KIT	PCMCIA type 2, 3, or 4 to SCSI		$169
T1480A	CardBus to Ultra SCSI		$199
A3940	Twin Channel PCI SCSI (14 drives)		$379
A3950U2	Twin Channel PCI Ultra-2 SCSI		$459
AAA131	PCI RAID controller		$429
AAA131U2	PCI RAID controller for Ultra-2		$439
AAA131CA	PCI RAID for NT workstation, 16MB cache		$509
AAA133	PCI WIDE RAID 3 channel controller		$589
AAA133U2	PCI Ultra-2 RAID 3 channel controller		$699
AHA8945	32 Bit PCI 1394 & UW controller		$549

TekRam

DC390	32 Bit PCI SCSI controller	$59
DC390U	32 Bit PCI Ultra SCSI controller	$95
DC390F	32 Bit PCI Ultra Wide SCSI controller	$99
DC390U2	32 Bit PCI Ultra-2 SCSI controller	$159
DC390U2W	32 Bit PCI Ultra-2 SCSI Dual Channel controller	$189

For the best deal on a controller:
www.dirtcheapdrives.com

WE KNOW RAID

Dirt Cheap Drives can custom configure a RAID to meet your needs. Here are a few popular components. We stock many other RAID components. For a complete quote call one of our RAID experts at 800-475-7730.

IDE RAID CASE



Incredible quality. Extremely well built. Just add up to 6 IDE drives of any capacity, and an Ultra Wide SCSI controller to your computer and you are ready for high performance, fault tolerant RAID. Features hot swap drive shuttles, 4 cooling fans, and redundant hot swap power supplies. Run as RAID 0 or 5. Supports all major operating systems.

Tower Model (IDERAIDCASE) $1959
Rack Mount Model (IDERAIDRACK) $2199

RAID SUITABLE ENCLOSURES

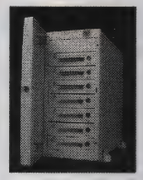
These hard drive enclosures are perfect for RAID or multiple drive applications. They feature hot swapable drive shuttles, and large cooling fans. These cases use a special backplane technology that allows you to use Wide SCSI, Ultra Wide SCSI, or Ultra-2 LVD hard drives without the normal cable length problems. Add drives and a DPT or Adaptec RAID controller for your complete high end RAID solution.



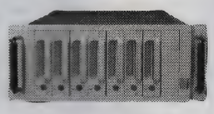
2 Drive Desktop Model (FHCASEUSW) $569



4 Drive Desktop Model (DUALCASEUSW) $769



7 Drive Desktop Model (QUADCASEUSW) $1459
8 Drive Desktop Model (QUADCASE8U2) $1609
8 Drive Dual channel (QUADCSDUAL) $1649



7 Drive Rack Model (RACKCASEUSW) $1519
8 Drive Rack Model (RACKCASE8US) $1649
8 Drive Dual channel (RACKCDUAL) $1699

AUTOMATIC BACKUP SYSTEM

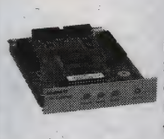


IDE Raid 1 unit automatically backs up your hard drive data the best way to another hard drive. With the ABS installed, your computer will automatically write data to your existing drive and to the ABS drive at the same time. Much better than a tape drive. Mounts in a half height drive bay. Choose the same size ABS drives as your existing hard drive. ABS drive pulls out easily for safe storage.

3.2GB	$359	6.4GB	$409	10GB	$469
4.3GB	$369	7.6GB	$429	12GB	$489
5.1GB	$389	8.4GB	$429	16GB	$629

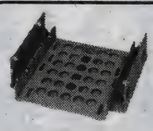
ABS without a hard drive $249

IDE MINIRAID



IDE RAID has never been this easy. Simply install the Mini RAID in a 3.5" drive bay, connect two same size IDE hard drives and bootup. Mini RAID does the rest for you. Totally transparent and requires no special command. Provides RAID 1 mirroring and features an audible alarm to alert you of drive failure. This is a great product. (MINIRAID) $239

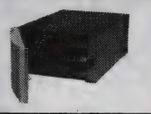
Shock Mount Bracket



- Mounts in 5 1/4" HH bay
- Provides shock protection via rubber isolators for 3 1/22" drives.

(SBRACKET) $39

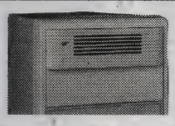
Hot swappable drive setup for SCA drives



- Mount three 1" high SCA drives in a single 5 1/4" full height drive bay.
- Quality metal construction.
- Front cooling fan, VERY NICE!

(SCA3DRIVE) $299 add $100 for external

Cooling Fan



Deluxe
(VHDFAN) $30

- Thermostatically Controlled Cooling System (TCS) Twin Fan cooler can reduce the temperature of your drive up to 30%. Prolongs the drive life up to 50%. Mounts in 5 1/4" half height bay with front access.

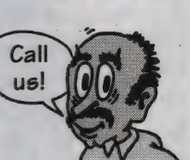
USB PRODUCTS

4x2x8 CD Rewritable	USB4X2X8X	$Call
100MB Zip	ZIP100USB	$149
USB to SCSI adapter	USBSCSI	$89
SuperDisk drive, 120MB &floppy	UASBLS120	$149
Floppy Drive	USBFLOPPY	$99
6GB Hard Drive	USB6GB	$269
8GB Hard Drive	USB8GB	$289
12GB Hard Drive	USB12GB	$359
16MB Hard Drive	USB16GB	$429

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- ✔ ***Media***
- ✔ ***Software***

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Bundle prices good only if drive is sold at advertised price. Some exceptions may apply to low price guarantee. Prices & specifications subject to change without notice. Shopping charges are nonrefundable. Returns are subject to a restocking fee. No refunds on software or special orders (items not listed in ad). All products covered by manufacturer's warranty only. We reserve the right to refuse any sale. Personal checks held for clearance. All trademarks ar registered trademarks of their respective companies. Entire contents ©1999 Dirt Cheap Drives.

REFERENCE
SOURCE DIRECTORY
GUIDE TO ADVERTISERS

When buying direct, you need to choose not only a product, but the vendor from which you'll buy it. *Computer Shopper*'s Source Directory gives you addresses, phone numbers, and other information about mail-order PC, hardware, and software sellers, listed alphabetically. The directory includes both sales and tech-support numbers. The section also lists business hours, plus ordering, shipping, and warranty policies.

Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
1st Compu Choice 740 Beta Drive, Unit G Mayfield Village, OH 44143	M-F 9-7 Sat 10-5 EST	800-345-8880 F216-460-1066	M-F 10-5 EST 800-421-4640	Y	Y	Y	Y	VI,MO,MC,DI CK,CD	Y	1 yr parts/3 yr systems	30	N	N
A Matter of FAX 65 Worth St New York, NY 10013	M-Th 9:30-6 F 9:30-2 Sun 11-4 EST	800-433-3329 212-941-8877 F212-226-1230	M-Th 10-5 F 10-2 EST 212-431-5426	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/30 day	N	Varies	N
AA Computech 28170 Ave Crocker, Ste 105 Valencia, CA 91355	M-Sun 7am-12am PST	800-360-6801 661-257-6801 F661-257-6805	M-F 9-4 PST 661-257-6804	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	30	20%	N
Aberdeen LLC 9130 Norwalk Blvd Santa Fe Springs, CA 90670	M-F 7-6 PST	800-552-6868 562-699-6998 F562-695-5570	M-F 8-5 PST 800-552-6868	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/1 yr	35	Varies	N
ABS Computer Technologies 9997 Rose Hills Rd Whittier, CA 90601	M-F 8-5 Sat 9-3 PST	800-876-8088 562-695-8823 F562-695-8923	M-F 8:30-5 PST 800-685-3471	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/1 yr	30	N	N
Acer America Corp 2641 Orchard Pkwy San Jose, CA 95134	M-F 6-6 Sat 8-4 PST	800-239-2237 800-531-0616 F408-922-2953	24 hrs 800-445-6495	N	N	N	N	VI,PO,MO,MC CD,AE	Y	1 yr	30	N	N
Adamant Computers 4572 Renaissance Pkwy Cleveland, OH 44128	M-F 9-8 Sat 10-3 EST	800-284-2257 216-595-1211 F216-595-1430	M-F 9-8 EST 216-595-9985	Y	Y	N	Y	VI,PO,MO,MC CD,AE	Y	3 yr	30	15%	Y
ADI Automated Data Instruments Corp 318 N Carson St, Ste 214 Carson City, NV 89701	M-F 7-3 PST	800-603-5244 F800-603-5225	M-F 7-3 PST 800-603-5244	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf/Replace/ Varies	*	25%	N
Adtech 522 Boston Post Rd Wayland, MA 01778	M-F 8-6 EST	800-419-0023 508-358-0077 F508-358-0066	24 hrs EST 800-419-0023	Y	Y	N	Y	VI,PO,MO,MC CK,CD,AE	Y	Manuf	7	N	N
ADW 1930 E Marlton Pike Ste C-17 Cherry Hill, NJ 08003	M-F 9-5 Sat-Sun 10-3 EST	888-742-5239 609-489-3500 F609-489-3555	M-F 9-5 EST 888-926-7385	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	7	Varies	N
All Computer Technology (ACT) 224 S 5th Ave City of Industry, CA 91746	M-F 8:30-5 PST	800-775-1953 626-369-4181 F626-961-7462	M-F 9-4:30 PST 626-369-4181	Y	Y	Y	Y	VI,PO,MO,MC CK,CD,AE	N	1 yr	30	15%	Y
American Microsystems 2190 Regal Pkwy Euless, TX 76040	M-F 8:30-5:30 CST	800-648-4452 F817-685-6232	M-F 8:30-5:30 CST 800-648-4452	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	1 yr	30	N	N
American Power Conversion Corp 132 Fairgrounds Rd West Kingston, RI 02892	M-F 8:30-5:30 EST	800-800-4272 800-890-4272 F401-789-3180	M-Th 8:30-8 F 8:30-7 EST 800-800-4272	Y	N	N	N	VI,PO,MC,CD	Y	2 yr	N	N	Y
American Ribbon & Toner Co 2895 W Prospect Rd Ft Lauderdale, FL 33309	M-F 8-6 Sat 10-3 EST	800-327-1013 305-733-4552 F305-733-0319	M-F 8-4 EST 800-327-1013	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr	30	20%	N
ATI Technologies 33 Commerce Valley Dr E Thornhill, ON L3T 7N6	M-F 8:30-5:30 EST	905-882-2600 F905-882-2620	M-F 9-7 EST 905-882-2626	Y	Y	Y	N		Y	5 yr	N	N	N
Atlas Micro 1302 John Reed Court City of Industry, CA 91745	M-F 8:30-5:30 PST	800-336-6898 626-336-6899 626-336-6569	M-F 8:30-5:30 PST 877-336-6898	Y	Y	N	N	AE,CD,CK,DI,MC MO,PO,VI	Y	3 yr	30	N	N

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AV Marketplace 6313 Benjamin Rd, Ste 110 Tampa, FL 33634	M-F 8-5 EST	800-282-6733 813-884-7168 F813-882-9508	M-F 8-5 EST 800-282-6733	N	N	N	Y	VI,PO,MC,CK CD,AE	Y	Manuf/1-3 yr	30	15%	N
Aventec Direct 5978 Heisley Rd Mentor, OH 44060	M-F 10-8 Sat 10-5 EST	800-898-9494 F440-918-7263	M-F 10-6 EST 440-918-7265	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/Varies	30	0-15%	N
Axis Systems 1000 S Melrose St Unit A Placentia, CA 92870	M-F 8-6 Sat-Sun 10-4 PST	800-378-9014 714-238-9027 F714-238-9206	Same for parts/ 24hrs 800-340-0944	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/1-3 yr	30	N	N
Bason Computers 20130 Plummer St Chatsworth, CA 91311	M-Sat 9-6 PST	800-238-4453 818-727-9054 F818-727-9064	Same 818-727-9054	Y	Y	Y	N	VI,MC,DI,CK CD,AE	Y	5 yr	30	25%	N
Bear Rock Technology 4140 Mother Lode Dr, Ste 100 Shingle Springs, CA 95682	M-F 8-12 & 1-5 PST	800-232-7625 916-672-0244 F916-672-1103	M-F 9-12 & 1-4 PST 916-672-0450	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	Varies	Varies	N	N
Big City Express 96 Hobart St Hackensack, NJ 07601	M-F 8-8 Sat 12-4 EST	888-223-2489 201-457-9044 F201-457-9576		Y	Y	N	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf	30	10%	N
Boxlight Corp 17771 Fjord Dr NE Poulsbo, WA 98370	M-F 7-5 PST	800-762-5757 F360-779-6470	M-F 6:30-4:30 PST 800-762-5757	Y	Y	Y	Y	VI,MC,AE	Y	1-3 yr	30	Varies	N
BSI 9440 Telstar Ave, Ste 4 El Monte, CA 91731	M-F 7-6 PST	800-872-4547 626-442-0020 F626-442-4527	M-F 8:30-5:30 PST 626-442-7038	Y	N	Y	Y	PO,MO,CK,CD	Y	1 yr parts/labor	15	10%	N
Cables America 824 Leo St Dayton, OH 45404	M-F 8:30-6 EST	800-348-8724 F800-329-8725	M-F 8:30-6 EST	Y	Y	N	N	VI,PO,MC,CK CD,AE	Y	Varies	30	15%	N
Cables Plus 6090 H McDonough Dr Norcross, GA 30093	M-F 9-5:30 EST	888-794-9600 770-797-9600 F770-797-9601	M-F 9-5:30 EST 770-797-9600	Y	Y	N	N	VI,MC	Y	Varies/1 yr-life	30	15%	N
Cables To Go 1501 Webster St Dayton, OH 45404	M-F 8:30-6 EST	800-225-8646 513-224-8646 F800-331-2841	M-F 8:30-6 EST 800-225-8646	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Varies	30	15%	N
Case Depot 14102 E Firestone Blvd Sante Fe Springs, CA 90670	M-F 8:30-5 Sat 9-2 PST	800-200-6118 F310-404-8525	M-F 8:30-5 PST 310-404-9725	Y	N	N	N	VI,PO,MO,MC DI,AE	Y	1 yr	30	15%	N
CDW Computer Centers 200 N Milwaukee Ave Vernon Hills, IL 60061	M-F 7-9 Sat 9-5 CST	800-726-4239 847-465-6000 F847-465-6800	M-F 7-9 Sat 9-5 CST 800-383-4239	Y	Y	Y	Y	VI,PO,MO,MC DI,AE	Y	Manuf	30	Varies	N
Circo Technology Corp 148 8th Ave, #D City of Industry, CA 91746	M-F 9-6 PST	800-678-1688 626-369-5779 F626-369-2769	M-F 9-6 PST 800-678-1688	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	1 yr	30	15%	N
Comp Direct 417 Fifth Ave New York, NY 10016	Daily 9-8 EST	800-931-7070 212-696-4777 F212-696-5820	Same	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	10	N	N
Comp-U-Plus 20 Robert Pitt Dr Monsey, NY 10952	M-Th 8:30-9 F 8:30-5:30 Sun 10-6 EST	800-287-2323 800-287-8786 F914-352-0076	M-F 10-6 EST 914-352-8100	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	2-5 yr	30	N	N
Compaq Consumer Direct 20555 SH 249 Houston, TX 77070	M-F 7-7 Sat 9-3 CST	800-888-0220	24 hrs 800-345-1518	N	N	Y	Y	VI,PO,MO,MC CK,AE	Y	3 yr	30	N	N
Compaq Direct Plus 20555 SH 249 Houston, TX 77070	M-F 7-7 Sat 9-3 CST	800-888-5858	24 hrs 800-345-1518	N	N	Y	Y	VI,PO,MO,MC CK,AE	Y	3 yr	30	N	N
Compaq Factory Outlet 10251 N Freeway Houston, TX 77037	M-F 8-7 Sat 10-5 CST	800-318-6919 F713-927-6798	24 hrs 800-652-6672	N	N	N	N	VI,MO,MC,DI CK,AE	Y	Varies/90 day	7	Varies	N
Computer Gate Int'l 2960 Gordon Ave Santa Clara, CA 95051	M-F 6-6 Sat 8am-2pm PST	408-730-0673 F408-730-0735	M-F 9-5 PST	Y	N	N	N	VI,PO,MO,MC CK,CD	Y	Varies	30	15%	N
Computers4SURE.com 10 Hoyt St Norwalk, CT 06851	M-F 8-8 EST 24 hrs online	800-585-4080 F203-750-1705	Same	Y	N	N	N	VI,MC,DI,AE	Y	Manuf	30	N	N

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Comtrend 39186 State St Fremont, CA 94538	M-F 7-6PM Sat 8-4 PST	888-266-8763 510-744-0950 F510-744-0952	M-F 8-5 PST 510-471-9452	Y	Y	N	N	VI,PO,MO,MC	Y	Manuf	30	15%	N
Corel Corp 1600 Carling Ave Ottawa, ON K1Z 8R7	M-F 8:30-5 EST	800-836-3729 613-728-3733 F613-761-9176	M-F 4am-8pm EST 613-728-1990	N	Y	N	N	VI,PO,MO,MC AE	Y	Replace	N	N	N
Cougar Mountain Software 7180 Potomac Dr, Ste D Boise, ID 83704	M-F 6-6 MST	800-388-3038 F208-375-4460	Same 800-727-0656	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Varies/60 day	60	15%	N
CPU 2355 N Steves Blvd, Ste C Flagstaff, AZ 86004	M-F 7-5 MST	800-278-3480 602-396-3616 F602-396-0483	Same 602-396-3616	Y	Y	Y	N	VI,PO,MO,MC CK,CD	Y	1 yr	30	15%	N
Crichlow Data Sciences 926 East Oleander St Lakeland, FL 33803	*	941-616-1222 800-678-4535 F941-616-1223	M-F 9-6, Sat & Sun 9-6 EST 941-616-1222	Y	Y	N	Y	VI,MC,CK,CD	Y	1yr	30	15%	N
Crossline Commerical 16026 Carmenita Rd Cerritos, CA 90703	M-F 8-7 Sat 9-4 PST	888-909-2767 562-921-0752 F562-921-0183	M-F 8-7 PST 888-832-4005	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Varies	30	25%	N
Crucial Technology (div of Micron) 8000 S Federal Way Boise, ID 83707	M-F 7-8 Sat 10-2 MST	800-336-8924 F208-368-3342	M-F 7-8 Sat 10-2 MST 800-336-8916	Y	Y	Y	N	VI,PO,MO,MC DI,CK,AE	Y	Life-original purchaser only	30	N	N
Cyber Power 4802 Little John St, Ste A Baldwin Pack, CA 91706	M-F 8:30-6 Sat 9:30-3 PST	800-707-0393 626-813-7730 F626-813-3810	M-F 8:30-6 877-876-4965	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	3 yr	30	N	N
CyberMax 133 N 5th St Allentown, PA 18102	M-Th 9-12 F 9-9 Sat 9-6 Sun 12-5 EST	800-443-9868 F800-599-7576	24 hrs 800-291-9868	Y	Y	N	Y	VI,PO,MC,DI CD,AE	N	3 yr parts/1 yr labor	30	N	N
Dalco Electronics 425 S Pioneer Blvd Springboro, OH 45066	M-F 8-8 Sat 10-4 EST	800-445-5342 513-743-8042 F513-743-9251	M-F 9-6 Sat 11-3 EST 800-543-2526	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Data Vision 30 Indian Dr Ivyland, PA 18974	M-F 8-8 EST	800-486-0620 800-486-9585 F215-396-0325	M-F 7:30-7:30 EST 800-486-0620	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	N	N
Dell Computer Corp 9505 Arboretum Blvd Austin, TX 78759	M-F 7-9 Sat 8-4 Sun 10-3 CST	800-426-5150 F800-727-8320	24 hrs 800-624-9896	Y	Y	Y	Y	VI,PO,MC,DI CK,AE	Y	1 yr	30	N	N
Dell Factory Outlet 8801 Research Blvd Austin, TX 78758	M-F 8-7 CST	800-336-2891 800-283-8991 F512-728-5659	24 hrs 800-624-9896	Y	Y	N	Y	VI,MO,MC,DI CK,AE	N	Varies	7	N	N
Direct P.O.S. 7978 Fairview Boise, ID 83704	M-F 7-6 MST	888-376-8144 F208-376-8143	M-F 8-4:30 MST 208-376-8141	Y	Y	N	Y	VI,MO,MC,DI CD,AE	Y	90 day	Varies	Varies	N
Dirt Cheap Drives 3716 Timber Dr Dickinson, TX 77539	M-F 8-8 Sat 9-3 CST	800-473-0960 281-534-6292 F281-534-6452	M-F 8-5 CST 281-534-6292	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
eBarcode.com 3521 Enterprise Dr Anaheim, CA 92807	M-F 7:30-5:30 PST	800-400-6437 714-688-7992 F714-688-7998	online 24hrs 800-400-6437	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	Manuf/Varies	30	10%	N
Egghead.Com 521 SE Chkalov Dr Vancouver, WA 98683	M-F 5am-5pm Sat 6am-3pm Sun 8am-2pm	800-344-4323 F360-816-7308	NA	Y	Y	N	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf	N	15%	N
Electrified Discounters 110 Webb St Hamden, CT 06517	M-Th 9-7 F-Sat 9-6 EST	800-678-8585 F203-777-7853	M-F 9-5 EST 203-787-4246	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	Varies	30	N	N
Envisions Solutions Technology 3485 Kifer Rd Santa Clara, CA 95051	Daily 7-7 PST	800-365-7226 408-735-0200 F408-735-0222	M-F 6:30-5 PST 800-469-8629	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,AE	Y	Manuf/1 yr	30	N	N
Eutronics 17200 Westgrove #714 Addison, TX 75001	M-F 12pm-8pm CST	972-250-6567 F972-250-6567	Same	Y	Y	N	N	VI,MO,MC,CK AE	Y	Manuf/30 day-3 yr	30	10%	N
Ever Han Corp 5122 Walnut Grove Ave San Gabriel, CA 91776	M-F 8-5:30 PST	800-253-2531 818-309-1103 F818-309-1107	M-F 9-5 PST 818-309-1108	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace/1 yr	30	15%	N

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Executive Software 701 N Brand Blvd Glendale, CA 91203	M-F 6:30 AM-5:30 PM	800-829-6468 800-829-4357 F818-545-9241	24 HRS 800-829-6468	Y	Y	N	N	VI,PO,MO,MC CK,AE	Y	Varies	30	N	N
ForeFront Direct 25400 US Hwy 19 N, Ste 285 Clearwater, FL 34623	M-F 9-6 EST	800-475-5831 813-724-8994 F813-726-6992	M-F 9-6 EST 813-725-2755	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/30 day	Varies	15%	Y
Gateway 2000 610 Gateway Dr North Sioux City, SD 57049	M-F 7-10 Sat 9-4 CST	800-846-2000 605-232-2000 F605-232-2023	24 hrs 800-846-2000	Y	Y	Y	Y	VI,PO,MO,MC DI,CD,AE	Y	3 yr	30	N	N
Harmony Computers 1801 Flatbush Ave Brooklyn, NY 11210	M-Th 9-6 F 9-2 Sun 10:30-4:30 EST	800-441-1144 718-692-3232 F718-692-4535	M-Th 9-6 F 9-2 EST 718-692-2828	Y	Y	N	N	VI,PO,MC,DI CK,CD,AE	Y	Varies	Varies	N	N
Iiyama North America 575 Anton Blvd, Ste 590 Costa Mesa, CA 92626	M-F 8-5 PST	800-313-4335 800-594-7480 F714-437-5982	M-F 8-8 PST 800-313-4334	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	3 yr parts/labor	30	N	N
Interpro Microsystems 46750 Fremont Blvd, Ste 104 Fremont, CA 94538	M-F 7-6 Sat 9-3 PST	800-226-7216 510-226-7226 F510-226-7219	M-F 9-5 PST 510-226-7226	Y	Y	N	N	VI,PO,MO,MC CD	Y	1 yr	30	15%	N
Jinco Computers 5122 Walnut Grove Ave San Gabriel, CA 91776	M-F 8-5:30 PST	800-253-2531 818-309-1103 F818-309-1107	M-F 9-5 PST 818-309-1108	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Replace/1 yr	30	15%	N
Kahlon 23255 La Palma Ave Yorba Linda, CA 92887	M-F 8-5 PST	714-694-0006 F714-694-0003	M-F 8-5 PST 714-637-5060	Y	Y	N	N	VI,PO,MO,MC CK,CD	Y	Varies	N	20%	N
Keystone Learning Systems Corp 2181 Larsen Pkwy Provo, UT 84606	M-F 7-6 MST	800-748-4838 801-375-8680 F801-373-6872	NA	Y	Y	N	N	VI,PO,MO,MC CK,CD,AE	Y	30 day	30	Varies	N
KTC Engineering Associates 16029 Kaplan Ave Industry, CA 91744	M-F 8-5 PST	626-961-3699 800-238-1950 F626-961-0149	M-F 8-5 PST 626-961-3695	Y	Y	N	N	PO,CK,CD	Y	1 yr	30	15%	N
Marine Park Computers 3126 Ave U Brooklyn, NY 11229	M-Th 9:30-8 Fri 9:30-5 Sun 10-7 EST	800-262-0163 F718-891-8408	M-F 10-6 EST 718-769-1186	Y	N	Y	Y	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Manuf	10	5%	N
MaxTech 15915 Cerritos Corp Dr Cerritos, CA	M-F 9-6 PST	800-289-4821 562-921-1698 F562-483-5085	M-F 9-6 PST 562-921-4458	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	3 yr	30	15%	N
Media Source 2197 Canton Rd, Ste 210 Marietta, GA 30066	M-F 8:30-7 EST	800-241-8857 770-919-0059 F770-919-9228	M-F 8-7 EST 800-241-8857	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
Mediastore 2238 N Glassell St, Unit A Orange, CA 92865	M-F 7-6 PST	800-555-5551 714-974-5551 F714-279-1690	M-F 8-5 PST 714-974-5551	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	30	Varies	N
Mega Haus 2201 Pine Dr Dickinson, TX 77539	M-F 8-8 Sat 9-3 CST	800-786-1185 281-534-2630 F281-534-6580	M-F 8-5 CST 281-534-2630	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	15%	N
Memory 4 Less 2622 W Lincoln Ave, Ste 104 Anaheim, CA 92801	M-F 9:30-5:30 PST	800-821-3354 F714-821-3361	Same 800-821-3354	Y	Y	N	N	VI,MO,MC,CK CD	Y	1 yr	N	Varies	N
Memory Man 5440 Mounes St #112 Jefferson, LA 70123	M-F 8:30-6 CST	800-634-2298 504-818-2717 F504-818-2820	Same 504-818-2820	Y	N	N	N	VI,PO,MO,MC DI,AE	Y	Varies	15	N	N
Micro Pro 5700 Brookpark Rd Cleveland, OH 44129	M-F 9-9 Sat 10-5 Sun 1-5 EST	800-353-3003 216-661-7218 F216-661-2454	M-F 10-6 EST 800-809-6483	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	Varies	N
Micron Electronics 900 E Karcher Rd Nampa, ID 83687	M-F 6-10 Sat 7-5 MST	800-347-3490 208-893-3434 F208-893-3424	24 hrs 800-438-3343	Y	Y	Y	Y	VI,PO,MC,DI CD,AE	Y	Varies	30	N	N
MidWest Micro 6910 US Rt 36 E Fletcher, OH 45326	M-F 9-9 Sat 10-4 EST	800-413-9780 F800-862-6622	M-F 9-9 Sat 10-4 EST 800-262-6622	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD	Y	Varies	30	Varies	N
Miracle Monitors 2038 West 11th St Upland, CA 91786	8:30-5 PST	909-946-9688 F909-946-9677	Same 909-946-8839	N	Y	N	N	CK,CD	Y	1 yr	30	*	N

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Company Name	Business Hours	Phones	Technical Support	Volume Discount	Reseller Discount	Financing Options	Leasing Options	Payment Options	Overnight Shipping	Warranty Policy	Money-Back Guarantee (Days)	Restocking Fee	Credit Card Surcharge
MSC Computers 151 E Imperial Hwy LaHabra, CA 90631	M-F 8:30-5:30 Sat 9-3 PST	800-550-8783 714-526-1292 F714-526-4055	M-F 10:30-5:30 PST 800-550-8783	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies/1-4 yr	N	Varies	N
NETLUX 14180 Live Oak Ave, Unit E Baldwin Park, LA 91706	M-F 8-6 PST	800-789-1780 626-851-9737 F626-851-9837	Same 626-851-9737	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	5 yr	30	N	N
Nurol Corp 1212 Collier Rd NW Atlanta, GA 30318	M-F 8:30-6:30 EST	800-390-6623 404-352-3587 F404-352-3589	Same 404-352-3587	Y	Y	N	N	VI,PO,MO,MC DI,CD,AE	Y	1 yr	30	Varies	N
Nutrend 1295 Johnson Drive City of Industry, CA 91745	M-F 6-7 Sat 9-3 PST	888-482-6678 626-937-2311 F626-937-2330	24 hrs 888-525-5181	Y	Y	N	N	VI,PO,MC,DI CD,AE	Y	3 yr	30	N	N
Onsale 1953 Landings Dr Mountain View, CA 94043	24 hrs	415-428-0600 F415-428-0163	N	Y	Y	N	N	VI,MC,DI,AE	Y	Varies	30	N	N
Oscar International 20625 Valley Blvd, Ste B Walnut, CA 91789	M-F 8:00-5:30 PST	877-595-0339 909-595-0339 F909-595-7654	SAME 909-595-0339	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	3 mo	N	15%	N
P.O.S. International 5300 N Federal Hwy Ft Lauderdale, FL 33308	M-F 8:30-7 EST	800-646-4767 F954-772-9806	Same 954-772-8995	Y	Y	Y	Y	VI,PO,MO,MC CK,CD,AE	Y	1-5 yr	30	20%	N
Patriot Systems 5757 N Lovers Ln Milwaukee, WI 53225	M-F 8-7 Sat 9-4 CST	800-728-3617 414-760-5300 F414-358-5310	M-F 8-5 CST 800-728-3617	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr	30	15%	N
PC America 60 N Harrison Ave, Ste 40 Congers, NY 10920	M-F 8-7 EST	800-722-6374 914-267-3500 F914-267-3550	Same 914-267-3549	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	30	N	N
PC Mall 2645 Maricopa St Torrance, CA 90503	24 hrs	800-555-6255 F310-225-4004	M-F 6-6 Sat 8-5 EST 800-760-0300	Y	N	Y	Y	VI,MO,MC,DI CK,CD,AE	Y	Manuf	Varies	Varies	N
PC Zone 707 S Grady Way Renton, WA 98055	24 hrs	800-258-2088 F206-430-3500	M-F 6-6 PST 800-248-9948	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/Varies	30	15%	N
Professional Technologies 21038 Commerce Pointe Dr Walnut, CA 91789	M-F 7-7 Sat 9-6 PST	800-949-5018 909-468-1368 F909-468-1372	M-F 9-5 PST 800-787-8987	Y	N	N	Y	VI,PO,MO,MC DI,CK,CD,AE	N	1 yr	30	N	N
Prostar Computer 1128 Coiner Ct City of Industry, CA 91748	M-F 7:30-6 Sat 9-3 PST	800-576-1134 626-854-3428 F626-854-3438	M-F 8:30-5:30 PST 800-576-1134	N	Y	N	N	VI,PO,MC,CK CD,AE	N	1 yr	30	N	N
Qualstar Corp 9621 Irondale Ave Chatsworth, CA 91311	M-F 8-5 PST	818-882-5822 F818-882-4081	Same 818-882-5822	Y	Y	N	N	VI,PO,MC,CK CD,AE	Y	1 yr	30	15%	Y
Quantex Microsystems 400B Pierce St Somerset, NJ 08873	M-F 9-12 Sat 9-6 EST	800-836-0566 800-836-0566 F732-563-0407	M-Th 9-12 Sat & Sun 9-6 EST 800-864-8650	Y	N	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf/1 yr	30	N	N
Raid 184 Pleasant Valley St Methuen, MA 01844	M-F 8-7 EST	800-330-7335 978-683-6444 F978-683-6656	24 hrs EST 978-683-6444	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	N	Varies	N
RAIDKing Technologies 155 E Lake Brantley Rd Longwood, FL 32779	M-F 10-6	800-799-7262 407-774-7266	M-F 10-6 407-774-7266	Y	N	N	N	VI,MO,MC,CK AE	Y	1 yr	30	20%	N
Sager 18005 Cortney Ct City of Industry, CA 91748	M-F 7-6 Sat 9-3 PST	800-669-1624 626-964-8682 F626-964-2381	M-F 8:30-5:30 PST 800-741-2219	Y	Y	N	Y	VI,PO,MC,DI CK,CD,AE	Y	Manuf/1 yr	30	N	N
Sony ITA 3200 Zanker Rd San Jose, CA 95134	NA	888-870-7669	24hrs 800-476-6972	N	N	Y	N	VI,MC,DI,AE	Y	Varies	30	NA	N
Sunstar Company 900 West Hyde Park Blvd Inglewood, CA 90302	M-F 7:30-4:30 PST	800-663-5523 310-330-2900 F310-330-2910	Same 310-330-2900	Y	Y	N	Y	VI,PO,MO,MC CK,CD,AE	Y	Varies	N	20%	Y
Sys Technology 6481 Global Dr Cypress, CA 90630	M-F 9-6 PST	800-613-9963 714-821-3900 F714-821-9592	24 hrs PST 888-722-2731	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD	Y	Manuf/1 yr	7	15%	N
TC Computers 5005 Bloomfield St Jefferson, LA 70121	M-F 7-8 Sat 9-5 CST	800-723-8282 504-733-2527 F504-733-3890	Same 800-723-6380	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	Manuf	20	N	N

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Team Force 14102 E Firestone Blvd Sante Fe Springs, CA 90670	M-F 8:30-5 Sat 9-2 PST	800-200-6118 F310-404-8525	M-F 8:30-5 PST 310-404-9725	Y	N	N	N	VI,PO,MO,MC DI,AE	Y	1 yr	30	15%	N
Technology Distribution Network 1000 Young St, Ste 270 Tonawanda, NY 14150	M-F 9-7 Sat 10-5 EST	800-420-3636 716-743-0195 F716-743-0198	Same 800-420-3636	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	30	N	N
Tempest Micro 375 N Citrus Ave, #611 Asvza, CA 91702	M-F 8-6:30 Sat 9-4 PST	800-818-5163 818-858-5163 F818-858-5166	Same 800-848-5167	Y	Y	N	Y	VI,PO,MO,MC DI,CK,CD	Y	2 yr	30	15%	N
TigerDirect 8700 W Flagler St Miami, FL 33174	M 8am-12am Tu-Sat 24 hrs Sun 12am-11pm	800-888-4437 305-229-1119 F305-228-3395	M-Sat 8am-12am EST 905-264-7400	Y	N	N	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	Manuf/Varies	Varies	N	N
Treasure Chest Peripherals 5005 Bloomfield St Jefferson, LA 70121	M-F 7-11 Sat 9-8 Sun 11-5 CST	800-677-9781 504-733-2527 F504-733-3890	Same 800-723-6380	Y	Y	Y	Y	VI,PO,MO,MC DI,DC,CK,AE	Y	Manuf	20	N	N
Tri-State Computer 650 Sixth Ave New York, NY 10011	M-Th 9-6 F 9-2 Sun 10-5 EST	800-433-5199 212-633-2530 F212-633-2218	M-Th 10-5 F 10-1 EST 212-633-6807	Y	Y	Y	Y	VI,PO,MO,MC DI,CK,CD,AE	Y	Manuf	33	N	N
True Data Products 775 Quaker Hwy, P.O. Box 347 Uxbridge, MA 01569	M-F 9-6 Sat 10-2 EST	800-635-0300 508-278-6555 F508-278-6748	M-F 10-4 EST 508-278-6555	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	3	Varies	N
Unicore Software 1538 Turnpike St N Andover, MA 01845	M-F 9-5:30 EST	800-800-2467 F978-683-1630	M-F 9:30-5 EST 978-686-2204	Y	Y	N	N	VI,MO,MC,DI CK,CD,AE	Y	1 yr	15	20%	N
United Comtec 1730 Amherst Rd Eric Grove Village, IL	M-F 9-6 EST	847-734-1824 F847-734-5354	Same 847-734-1824	Y	Y	N	N	VI,PO,MO,MC DI,CK,CD,AE	Y	Varies	Varies	Varies	N
United Micro 5835 Harper Rd Solon, OH 94139	M-Sat 9-7 EST	800-943-7255 F440-498-7214	M-Sat 9-7 EST 800-943-7255	Y	Y	N	N	VI,PO,MO,MC DI,DC,CK,CD AE	Y	Varies/3-5 yr	30	N	N
ViewSonic 20480 Business Pkwy Walnut, CA 91789	M-F 7-6 PST	800-888-8583 909-869-7976 F909-869-7958	Same 800-888-8583	N	N	N	N	*	N	Varies	N	N	N
WinBook Computer Corp 1160 Steelwood Rd Columbus, OH 43212	M-F 8am-9pm Sat 9-4 EST	800-468-2162 800-468-7502 F800-448-0308	Same	N	N	N	N	VI,MC,DI,CK	Y	1 yr	30	N	N
Worthington Data Solutions 3004 Mission St, Ste 220 Santa Cruz, CA 95060	M-F 6:30-5 PST	800-345-4220 F408-458-9964	Same	Y	Y	N	N	VI,PO,MC,CK CD,AE	Y	2 yr	30	Varies	N
Yorkshire Computers 11515 W Carman Ave Milwaukee, WI 53225	M-F 8-8 Sat-Sun 9-4 CST	800-375-1667 414-358-5309 F414-358-5310	M-F 8-5 CST 414-358-5306	Y	Y	Y	N	VI,PO,MO,MC DI,CK,CD,AE	Y	1 yr parts/life labor	30	15%	N
Manufacturers													
Canon Computer Systems 2995 Redhill Ave Costa Mesa, CA 92626	M-F 8-5 EST	800-848-4123 F800-526-4345	M-F 8-11 Sat 11-6 EST 800-423-2366										
Hewlett-Packard 3000 Hanover St Palo Alto, CA 94304	M-F 6am-5pm PST	800-752-0900	M-F 5am-9pm Sat 8am-3pm PST 208-323-2551										

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CD	C.O.D.	**MO**	Money Order
CK	Cashier's/Personal Check	**PO**	Purchase Order
DC	Diner's Club	**VI**	Visa
DI	Discover Card		

GENERAL

F	Fax Number
N	No/None
NA	Not Available
Y	Yes
*	Information Not Provided

WARRANTY

Maunuf	Manufacturer's Warranty
Life	Lifetime
Mo	Month
Unltd	Unlimited
Yr	Year

REFERENCE

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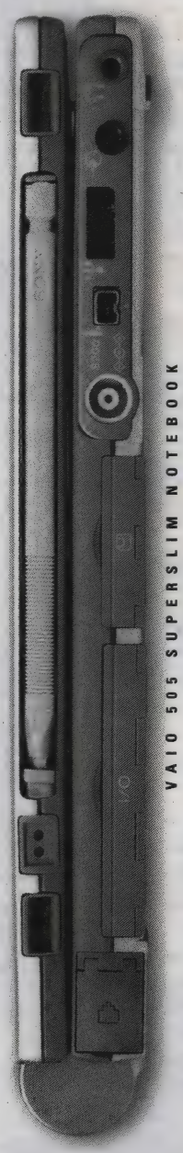
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High speed printer cable

6' DB25male/CN36male $ 4.95
10' DB25male/CN36male $ 7.95
15' DB25male/CN36male $ 9.95
25' DB25male/CN36male $13.50
6' DB25male/DB25male $ 6.05
6' DB25male/HPCN36male$ 6.50
10' DB25male/HPCN36male$ 8.95

4.95 UP

RS 232 SERIAL CABEL

All with 25 wire straight through pin to pin fully shielded.
Length from 3 ft. to 100 ft. M/M & M/F

3' $ 1.15 25' $ 4.50
6' $ 1.40 50' $ 8.25
10' $ 2.30 75' $12.00
15' $ 2.90 100' $18.00

1.15 UP

PS II MINI DIN 6 KEYBOARD & MOUSE CABLE

1.25 UP

6' MM & MF $ 1.70
10' MM & MF $ 2.75
15' MM & MF $ 4.25
AT to PS/2 Adapter $ 1.25
PS/2 to AT Adapter $ 1.25

VGA HD 15 MM & MF MONITOR CABLE

6' $ 2.50
10' $ 3.25
15' $ 5.00
25' $ 8.50
40' $15.50

2.50 UP

RGB-VGA+BNC Plug Super VGA Extn Cable

PC VGA/5BNC $13.00 RGB coax VGA MONI
MAC VGA/4BNC $16.00 TOR CABLE UL2919

HD-15 MF, fm 6 ft. to 100 ft.

7.50 UP

AT SERIAL MODEM CABLE

DB 9 Female to DB 25 Male
Length from 2 ft. to 10 ft.

2' $ 1.50
6' $ 2.40
10' $ 3.50

1.50 UP

LAP LINK CABLE SET

Null DB 9 F to DB 25 F, DB 25 M /M
2xD-Sub 25 F (7 conductor)
2xD-Sub 9 F (7 conductor)

serial + parallel — serial

FLAT RIBBON CABLE

IDE Hard Drive Cable

2 connector $ 1.25
3 connector $ 1.50

SCSI 2 Internal Cable

3xIDC50PIN $ 3.00
7xIDC50PIN $ 5.50

SCSI 3 Internal Cable

3xHP68PIN IDC $ 9.00
5xHP68PIN IDC $17.00
7xHP68PIN IDC $23.00

SCSI SYSTEM CABLE

SCSI 1 Cable

3' DB25M/CN50M $ 3.50
6' DB25M/CN50M $ 4.50
3' CN50M/CN50M $ 4.00
6' CN50M/CN50M $ 5.50

3.50 UP

SCSI 2 Cable

3' HPDB50M/CN50M $11.00
6' HPDB50M/CN50M $13.00
6' HPDB50M/DB25M $12.50
6' HPDB50M/DB50M $12.50
6' HPDB50M/HPDB50M $14.00
3' HPCN50M/HPCN50M $14.00

SCSI 3 Cable

6' HPDB68M/CN50M $21.00
6' HPDB68M/DB50M $25.00
6' HPDB68M/DB25M $28.00
6' HPDB68M/HPDB68M $25.50
6' HPDB68M/HPDB50M $28.00

SCSI 5 Cable

0.8mm VHDCI/HP Micro DB68 male $39.50

SCSI 1, 2, 3 TERMINATOR

Internal Terminator

SCSI 2 Terminator single End IDC 50M Active $ 5.00
SCSI 2 Terminator feed thru IDC 50M/F Active $ 8.50
SCSI 3 Terminator 68 M or F Active $14.50
SCSI 3 Terminator 68 M/F feed thru Active $18.50

External Terminator

SCSI 1 Passive Terminator CN50 M/F $ 5.00
SCSI 2 Active Terminator HP DB 50M Single End $13.00
SCSI 3 Active Terminator HP DB 68M Single End $19.00
SCSI 2 to SCSI 3 Terminator HP DB 50F to 68M Active $19.00

NETWORKING CABLE 10/100 BASE -T UTP

UTP Booted Category 5 color patch cord color:B/k,Blue,Ylow,Red,Grn,Gray,White

3' $1.40 10' $3.00 25' $5.90 75' $13.90
7' $2.40 15' $3.40 50' $9.50 100'$18.00

1.40 UP Grey

1000 ft. bulk CAT 5 Cable

8c Cable, Unshielded Twisted pair. 100Base-T, high speed data and LAN Applications.

59.95

Catagory 5 Modular Plug and T Adapter

RJ45 8p8c modular plug

6p6c & 8p8c "T" adapter

0.80 UP

$10.50/50pcs

CAT 5 Keystone Jack

UL Listed. Red,Ylow, B/k, Grn, Blue

4.50 UP

Modular plug boot

6p6c & 8p8c coupler

0.80 UP

$11.50/50pcs

CAT 5 Multi Wall Plate

Wall mount Box Face PLate

0.85 UP

RG58 Coaxial Cable

Bulk Cable Preassembled
300 ft. $23 10' $2 25' $5
1000 ft. $65 15' $3 50' $9
* Custom length is available upon request

Connector/Terminator

BNC 50 OHM terminator $1.10
BNC T adapter F-M-F $1.40
BNC dual F adapter $1.30
RG58 BNC crimp on M connector $0.90

Tools and Stripper

Ratcheted hexagon shape. BNC RG58, 59,62 crimping tool $19.00

3.00 UP

Coaxial cable stripping tool $7.50

Standard modular crimping tool 6p6c 8p8c $25.00

Heavy duty crimping tool $39.00 6p6c 8p8c

IMPACT & PUNCH DOWN TOOL

$39.00

Impact tool w/pressure adjusting control + Blades for 66 type and 110/88 type.

Easy stripper for UTP/STP telecom wire $3.00

COMPUTER SERVICE TOOL KIT

PC Tool Kit(12pcs) CT-001 $7.50

TechnicianTool Kit(23pcs) CT-003 $23.50

Cable Tie & Cable Manager

Velcro Cable Tie 10pcs in 5 colors $4.00

Cable Clip 10 clips holds 10 cables $3.00

Nylon Cable Tie(120mm) $0.75/100pcs
Self-adhesive cable Tie mount $6.00/100pcs
Cable Marker Tie $1.50/100pcs
Flat Cable Clamps $2.50/10pcs

CABLE TESTER

LANtest (Network & Modular Cable Tester)

Pin to pin checker w/remote kit 10 base T CAT 5 cable, coaxial BNC cable, RJ11/ RJ45 cable tester $58.00

PC Cable Tester

Excellent tool for quickly testing the pin configuration or trouble shooting.
With RJ,BNC,HDB15,DB9 DB25,Centronic,DB15 tester ports.
CT-258981 Cable Tester $98.00
CT-258991 w/optional USB 1394 test port $115.00

MANUAL DATA SWITCH BOX

	AB(2 to 1)	ABCD(4 to 1)
DB25 Female S.B.	4.50	7.95
CN36 Female S.B.	7.00	11.00
S.B.(2on4 CN36 + 1 DB25)	9.00	13.00
S.B.(2on4 DB25 + 1 CN36)	9.00	13.00
DB9 Switch Box	4.50	7.95
HD15 Monitor S.B.	7.50	12.00
Din5 + HD15 S.B.	9.50	15.00
Din5 + HD15 + DB9	-	26.50
MiniDin6 + HD15 S.B.	9.50	15.00
MiniDin6 + HD15 + DB9	-	29.00
2 x MiniDin6 + HD15 S.B. (for PS 2 Mouse,KB,VGA S.B.)	-	35.00
Crossover DB25 or CN36 for 2 PC/2 Printer	-	16.00
Modular RJ11 or RJ45	12.00	18.00
Coaxial BNC S.B.	12.00	18.00

4.50 UP

AUTO DATA SWITCH BOX

Non-powered 2 to 1 & 4 to 1 parallel auto switch

2 to 1 $8.00 4 to 1 $16.00
8 to 1 parallel auto switch $66.00

8.00 UP

BI-TRONIC Auto Switch

I-EEE-1284 Bi-directional parallel port printer sharing switch
2 way: 1 PC to 2 prts or 2 PC to 1 ptr $31
4 way: 1 PC to 4 prts or 4 PC to 1 ptr $59

VGA Multiplier

(Video Splitter-4 Channel & 8 Channel)
4 to 1 VGA Multiplier $ 85.00
8 to 1 VGA Multiplier $ 105.00

POWER SURGE PROTECTION

Power Center (UL Approved) 12.00 UP

Circuit breaker, w/reset button
Fax/Modem protection full
3 line surge protection (3mov)
Noise filter (EMI/RFI)

PP-6ULM Traditonal P.Pad $12.00
PP-A1 Superior P.Pad $16.00
PP-6ULMS Deluxe P.Pad (Ultra slim) $21.00

* All lifetime Warranty

Power Strip (UL Approved)

Fax Modem protection
Surge indicator light;Durable ABS plastic,Circuit breaker
EMI/RFI, 3 Mov, 6' Cord

PS-8MR 8 outlet w/360° rotating flat plug extra 2 outlet for transformer $15.00

3.50 UP

PS-6M Metal case 2x3 6'cord $ 8.00
PS-6MX 6 outlet 2x3 6'cord plastic case $ 8.00

Economic Power Strip (UL Approved)

1 Mov,4.5' Cord,Circuit breaker
PS-6PA Plastic case $3.50
PS-6 Metal case $5.00
PS-5EU Earopean Power Strip $12.50

DC to AC Inverter Power Supply Cord

INV-75 75 watts $32.00
INV-300 300 watts $49.00

All UL listed power cord
6' Powercord $1.25
12'Powercord $2.20
6' Power extn $1.90
8' Power adapter$1.20
6' European power cord$3.00

UPS - Longest Runtime Guarantee

Surge suppressors plus power back up UL 1449
1330 Joules fulltime surge protetection
325 VA Battery instant back up
EMI/RFI noise filter
Lifetime Warranty

69.00 Only

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Universal Serial Bus

USB-AA 6ft. USB A/A. M/M $3.95
USB-AB 6ft. USB A/B. M/M $3.95
USB-AAMF 6ft. USB A/A. M/F $3.95

USB HUB (PC to USB device)

4 way USB HUB $48.00

USB ROB Slot Cable

USB ROB (Receptable on Bracked)
Two serial A receptacle to two 5 pin terminals $3.75

USB to IEEE-1284 BRIDGE (convertor)

Connect your existing printer to your USB port.6 ft. USB A type plug to centonic 36 male $28.00

GENDER CHANGER & ADAPTER

Mini (Super thin slim) Type

DB9 MM,FF $1.80
DB25 MM,FF $2.00
HD15 MM,FF $3.30

1.50 UP

Adapter

DB9 to DB25 MM,MF,FF,FM $2.00
DB9 to HD15 MM,MF,FF,FM $2.60
DB25to CN36 MM,MF,FF,FM $3.00

Null Modem Gender Changer

DB9 MF,MM,FF $2.00
DB25MF,MM,FF $2.50
DB15 male MAC to HD15 female VGA $5.90

Modular Adapter

RJ12 to DB9 M or F $1.50
RJ12 to DB25M or F $1.50
RJ45 to DB9 M or F $1.75
RJ45 to DB25M or F $1.75

RCA Extn Cable

RCA male to female extn cable 6ft. $1.50
2x RCA to 2x RCA M. calbe 6ft. $2.00
3.5mm stereo plug to plug 6ft. $1.50

MOUSE

999 Infinity serial Mouse $3.50
Ergonomic PSII Mouse $4.00
Microsoft IntelliMouse PS-2 Special Sale $26.00

KEYBOARD

Windows98 PS-2 keybord $32.00

6.00 Only Microsoft Natural Keyboard

MONITOR GLASS FILTER

Multi-Layer 2 sides coated glass filter
Anti-Radiation, Anti-Static Anti-Reflection, Anti-glare
15" $17.00
17" $25.00
21" $32.00

JOYSTICK

Ergonomic Design 4 way button $16.50

Fashion 3-D Joystick $12.00

Joystick with 180. rotating fire button $9.00

MULTI-MEDIA SPEAKERS

PC Hi-Fi speakers 12 watts RMS, PMPO 60 watts

Adjusted Stereo Headset Microphone $5.00

Condenser Desktop Microphone $3.00

6.95 Only

Subwoofer System 3D sound enhancement 21 watts RMS, 35Hz - 20000Hz Frequency response $43.00

3D speaker wooden-case,36 watts RMS PMPO 360 watts $45.00

MASTER VIEW plus CPU SHARING SWITCH

CPU switch device enables a single keyboard, monitor and mouse to contral multiple CPUs.

2 to 1 for PSII VGA/Mouse/KB (PC mouse available) CS-122 $148.00

4 to 1 for AT & PSII VGA/Mouse/KB CS-104 $179.00

4 to 1 for AT & PSII VGA/Mouse/KB w/ smart mouse function $239

6 to 1 for AT VGA/Mouse/KB CS-106 $185.00

8 to 1 for AT & PSII VGA/Mouse/KB CS-128 $378.00

8 to 1 for AT & PSII VGA/Mouse/KB (on screen display) CS-138 $478

Option Rack Mount Panel $21.50

Option Foot Switch $15.00

2L-1603A (AT) DB25M to HDB15M + Din5M + DB9F $24.50

Smart cable for CPU switch

2L-1003P(PSII) HDB15F + 2x MiniDin6M to DB15M + 2 x Mini Din6M $24.50

2L-1003A(AT) HDB15F + Din5M + DB9F to HDB15 + Din 5M+ DB9M $24.50

2L-1603P(PSII) DB25M to HDB15M + 2 x Mini Din 6M $24.50

CONSOLE CONVERTERS for SUN & MAC CV-130/CV-160

Oscar's Master View CPU Switches can control mixed PC/AT and PS/2 computers. Adding a Mac/SUN KVM converter makes it easy to intrgrate Macintosh/SUN computer in Master View. These converters have been developed to help control PC/AT, PS/2, MAC,and SUN computer with only 1 keyboard and mouse.

$114 $114

GEL ERGO

Soft Gel plus Smooth Lycra material Reduces pressure points for exceptional forearm and wrist comfort. $6.50

Gel Ergonomic Mouse Pad $12.00

Gel Mouse Station w/ copy holder $8.50

Gel Keyboard Wrist Rest

Keyboard rubber wrist rest 1.50 Only

Ergonomic spring wrist rest 5.00 Only

CPU Stand $4.00

Mouse Holder $1.10

Anti-static wrist strap $3.25

Copy Holder

Desktop magic curve $5.00

Monitor mounted copy clip $2.00

With adjustable 360° metal arm plus desk corner clamp $9.50

MINI VAC CLEANING KIT

Stadard Cleaner $4.75
Super deluxe Cleaner $6.00

DUST COVER

Semi-Transparent color, water proof, sewing edge, extra soft,silk-like embossed.To fit everybody's need!

for 80 column printer $1.75
for 132 column printer $2.25
for 14" or 15" monitor $1.75
for 17" monitor $2.50
for 21"monitor $4.00
2 pcs/set-for 14" or 15" monitor & desktop CPU + AT Keyboard $3.50
for101~105 Keyboard $1.75
for mini baby tower CPU $2.25
for ATX mid tower case $2.75
3 pcs/set-for 14" or 15" monitor + AT desktop CPU + AT keyboard $4.95

.75 UP

WORKSPACE

Multi-Purpose Organizer
3 adjustable shelves, slide out for easy access.

Deskjet printer Monitor

$19.50 Laser Printer Fax Machine

PRINTER / FAX STATION

$21.00 For Printer For Fax Machine

MONITOR ARM

Heavy Duty Mover Hold up to 66 lb. $29.50

SPACE MASTER

Multi-Purpose Stand $24.00 For Printer For Monitor

ERGO PLUS KEYBOARD ARM

Extra-wide Playform plus Mouse Shelf $38.00

ERGO KEYBOARD UNDERCARRIAGE

$13.00 w/Mouse Shelf $24.00

ERGO FOOTREST

$16.00

COMPUTER FURNITURE

Upright Computer Rack $79.50

Executive chair w/pu arm $99.00

Economical arm chair $65.50

Executive leather chair $79.50

Executive chair w/chrome end leather uphostered arm $135.00

CD ACCESSORIES

Multi-Media Station Hold 20 CDs $7.95

CD-Roll Hold 20 CDs $4.95

CD-Rack Hold 20 CDs $4.95

Stackable Hold 12 CDs $7.95

Revolving CD Rack Hold 100 CDs $ 19.95 Hold 200 CDs $ 33.50

CD Pouch Hold 24 pcs $5.00

Portable CD storage case hold 12 pcs. Thermal foam $7.50

Portable CD storage case hold 24 pcs. Thermal foam $12.00

CD Deluxe Wallet hold 20 pcs.EVA zippered $15.00

CD Deluxe Wallet hold 10 pcs.EVA zippered $10.00

ZIP Carrier Transportable case with clear perspex $2.50

ZIP DuraCase Hold 2 Zips /unit $2.50

PCMCIA Case Hold 2 PCMCIA card/ unit $2.00

Media Bank hold 50pcs 3.5" disk $4.50

hold 100 pcs 3.5" disk $6.50

Crystal CD Bank hold 40 CDs $3.95

3.5" Disk StackableDrawer hold 100 pcs $10.50

3.5" Disk Boxes Pull-up for 20 pcs hold 200 pcs. More CD & tapes $16.50 $7.50

CD CLEANING KITS

3.5" Disk Drive Head Cleaner $1.25

CD Laser Lens Cleaner (Wet) $9.50

CD Cleaning Kits $6.00

CD-RECORDABLE

650MB 74 Minutes
CDR Bulk on spindle (Non- Labled)
1000 pcs $ 0.90/pc
CDR Storage Retail 10 pcs/Box $10.25/box

MOUSE PAD

Art Frame Mouse Pad (Photo- in) $3.00

Economic Mouse Pad Cloth Surface + Eva Sponge Bottom $0.85

PVC surface + nature ruber with Anti-skid process

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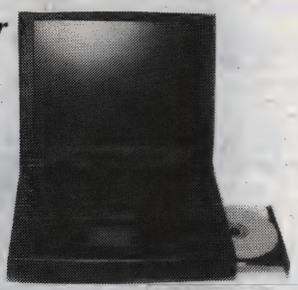
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56k fax modem Active Color

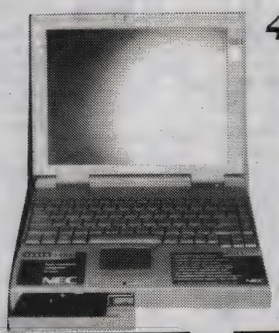
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NEC Versa 4050 Pentium® 90

40 Meg ram Active Color
810 meg hdd 10 x cd rom
33.6 fax modem

$599



K6-266 40/2.0 Color 20x CD

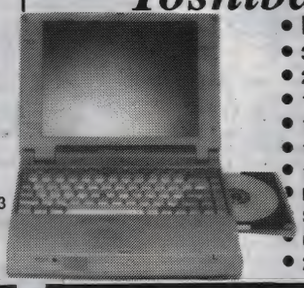
CTX $899



- K6-266 processor
- 40 meg ram
- 2.0 gig HDD
- 12.1" Dual Scan
- 16 bit sound card
- 20x cd rom
- 1.44 3 1/2 Floppy
- Touchpad & pcmcia slot #3
- Serial, Parallel, Vga ports
- refurbished

Pentium®133 32/2.1 Gig Active 10x CD

Toshiba $699



- Pentium®133 processor
- 32 meg ram
- 2.1 Gig HDD
- 11.3" Active Color
- 16 bit sound card
- 10x cd rom
- 1.44 3 1/2 Floppy
- Eraserhead, pcmcia #3
- Serial, Parallel, Vga ports
- refurbished
- 28.8 fax modem

Pentium®120 32/1.3 Color 10x CD

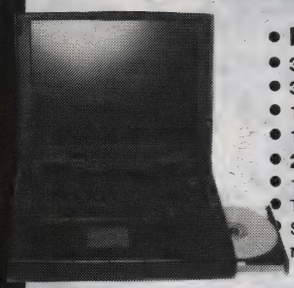
HP Omnibook $599



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- 32 meg ram
- 1.3 gig HDD
- 11.3" Dual Scan Colc
- 16 bit sound card
- 10x cd rom
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- Serial, Parallel, Vga ports
- refurbished
- 28.8k fax modem

Pentium 266mmx 32/3.2gig Active 20x

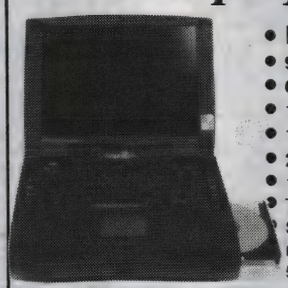
ACER $899



- Pentium 266mmx processor
- 32 meg ram
- 3.2 Gig HDD
- 12.1" Color
- 16 bit sound card
- 20x cd rom
- 1.44 3 1/2 Floppy
- Touchpad & pcmcia slot #3
- Serial, Parallel, Vga ports
- refurbished

K6-333 processor 96/6.4 gig Active 24x CD

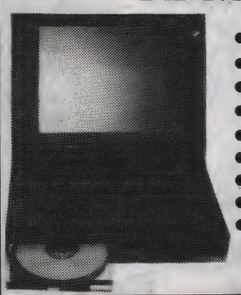
Compaq $1299



- K6-333 processor
- 96 meg ram
- 6.4 gig HDD
- 12.1" Active Color
- 16 bit sound card
- 24x cd rom
- 1.44 3 1/2 Floppy
- Touchpad & pcmcia slot #3
- Serial, Parallel, Vga ports
- refurbished
- 56k fax modem

Pentium® 75 processor 16/810 meg Active CD

IBM $499



- Pentium®75 processor
- 16 meg ram
- 810 meg HDD
- 10.4" Active Color
- 2x cd rom Ext
- 1.44 3 1/2 Floppy
- Eraserhead & pcmcia slot #
- Serial, Parallel, Vga ports
- refurbished

486DX2/50 20/810 Active

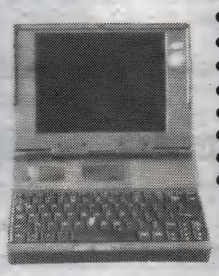
NEC $299



- 486DX2/50 processor
- 20 meg ram
- 810 meg HDD
- 9.5" Active Color
- 1.44 3 1/2 Floppy
- Trackball & pcmcia slot #3
- Serial, Parallel, Vga ports
- refurbished
- 14.4k fax modem

Pentium®100 16/810 meg Color

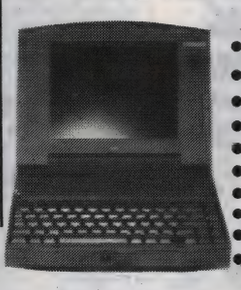
Toshiba $399



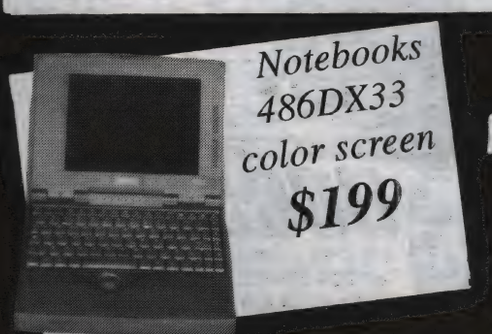
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- 16 meg ram
- 810 meg HDD
- 10.4" Dual Scan Color
- 1.44 3 1/2 Floppy
- Eraserhead & pcmcia slot #3
- Serial, Parallel, Vga ports
- refurbished

486DX4/75 40/810 Active

NEC $349



- 486DX4/75
- 40 meg ram
- 810 Meg HDD
- 9.5" Active Color
- 1.44 3 1/2 Floppy
- Trackball
- Pcmcia slot
- Serial, Parallel, Vga ports
- refurbished
- 14.4 fax modem



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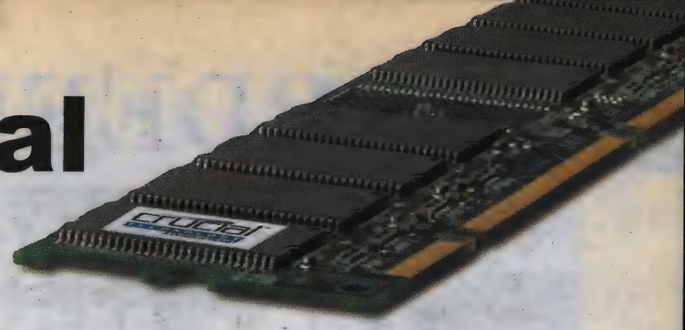
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Deskpro 2000 model 5166/1200	-	77.89	46.54
Deskpro 2000 5233MMX	$148.19	77.89	46.54
Deskpro 4000 5166MMX	$148.19	77.89	46.54
Deskpro 4000 5200MMX	$148.19	77.89	46.54
Deskpro 6000 Pentium II model 300	$166.24	94.04	53.19
Deskpro EN Minitower Model 9100CDS (450MHz)	$136.79	72.19	53.19
Deskpro EP Model 6400 (450MHz)	$136.79	72.19	46.54
Presario 4660	$148.19	77.89	46.54
Presario 4808	$148.19	77.89	46.54
Presario 5140	$136.79	72.19	46.54
Armada 7710MT Laptop	-	138.69	74.09
Armada 1130T Series Laptop	-	138.69	74.09
Presario 1610 Laptop	-	82.64	40.84
Presario 1620 Laptop	-	82.64	40.84
Presario 1622 Laptop	-	82.64	40.84

Micron Electronics	128MB	64MB	32MB
ClientPro 766XI	$148.19	77.89	46.54
ClientPro CP 450	$136.79	72.19	46.54
ClientPro MRE P200	$256.49	77.89	82.64
ClientPro P200	-	157.68	83.58
ClientPro VXE	$148.19	77.89	46.54
Home MPC P200 w/ M54Hi BIOS	-	157.68	83.58
Magnum Pro Plus P200	$294.48	151.98	81.68
Millennia 450	$136.79	72.19	46.54
Millennia MAX 450	$136.79	72.19	46.54
Millennia MME P233	$148.19	77.89	46.54
Millennia Transport P133	-	-	106.38
Millennia Transport XKE P233(A)	-	138.69	74.09
TransPort Trek Series Notebooks	-	138.69	74.09
Transport Trek2 Series	$379.99	82.64	40.84

Gateway	128MB	64MB	32MB
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G6-300	$136.79	77.89	46.54
G6-300XL	$148.19	77.89	46.54
G6-350	$136.79	72.19	46.54
G6-400	$136.79	72.19	46.54
G6-450	$136.79	72.19	46.54
GP6-266	$148.19	77.89	46.54
GP6-300	$148.19	77.89	46.54
GP6-350	$136.79	72.19	46.54
GP6-400	$136.79	72.19	46.54
GP6-450	$136.79	72.19	46.54
P5-90	-	151.98	81.68
P5-133 XL with SIMMS	-	157.68	83.58
P5-200 XL with DIMMS	-	77.89	78.84
Solo 2300 Series	$569.99	161.49	85.49
Solo 2500XL	$379.99	82.64	40.84
Solo 5100SE	-	82.64	40.84
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Solo 9100XL	-	82.64	40.84

IBM	128MB	64MB	32MB
Aptiva (2134) Model 351	-	157.68	83.58
Aptiva (2140) Model L5H	$148.19	77.89	46.54
Aptiva (2153) Model E2U	$136.79	72.19	46.54
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PC 300PL (6862-27U)	$136.79	72.19	46.54
PC 365 Series Systems (6589xxU)	$280.24	180.49	93.09

IBM (continued)	128MB	64MB	32MB
ThinkPad 1410 (i Series)	$379.99	82.64	40.84
ThinkPad 1411 (i Series)	$379.99	82.64	40.84
ThinkPad 365XD	-	-	74.09
Thinkpad 390 Series	$379.99	82.64	40.84
ThinkPad 560	-	138.69	74.09
ThinkPad 770	$379.99	82.64	40.84

HP	128MB	64MB	32MB
Pavilion 6350	$148.19	77.89	46.54
Pavilion 8240	$148.19	77.89	46.54
Pavilion 8390	$136.79	72.19	46.54
Vectra VE Series 7	$148.19	77.89	46.54
Vectra VE Series 8	$136.79	72.19	46.54
Vectra VL Series 7	$166.24	94.04	46.54
Vectra VL Series 8	$136.79	72.19	46.54
Kayak XA PC Workstation 440BX Chipset	$152.94	72.19	46.54
Kayak XA PC Workstation 440LX Chipset	$166.24	72.19	46.54
Kayak XU PC Workstation 440LX Chipset	$166.24	94.04	53.19
Kayak XW PC Workstation 440BX Chipset	$152.94	79.79	53.19
Ominbook XE Series	$379.99	82.64	40.84
Omnibook 2000	-	147.24	85.49
Omnibook 5500CT	-	147.24	85.49
Omnibook 800CT	-	170.99	85.49

Apple	128MB	64MB	32MB
iMAC	$379.99	82.64	40.84
Performa 5200	-	-	75.99
Performa 6115CD	-	151.98	81.68
Performa 6200 Series	-	-	75.99
Performa 6300 Series (except 6360)	-	-	75.99
Performa 6400 (5400 models)	-	170.99	99.74
Power Mac 5500 Series	-	170.99	94.04
Power Mac 6500 Series	-	170.99	94.04
Power Mac 8500 Series	-	-	99.74
Power Mac G3 (Yosemite)	$136.79	72.19	46.54
Power Mac G3 Desktop Series(M6141LL/A, M6202LL/A) Gossimer	$221.34	116.84	46.54
PowerBook G3 Wall Street 250	-	135.84	-
PowerBook G3 Wall Street 266	-	135.84	-

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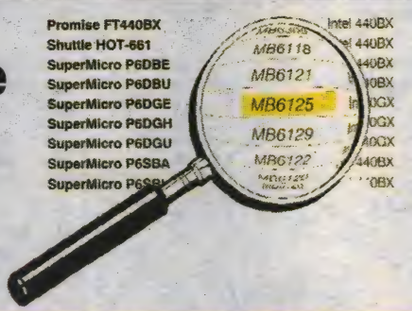
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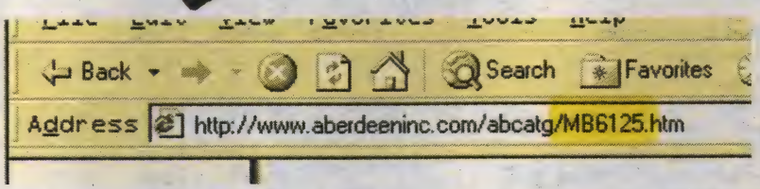
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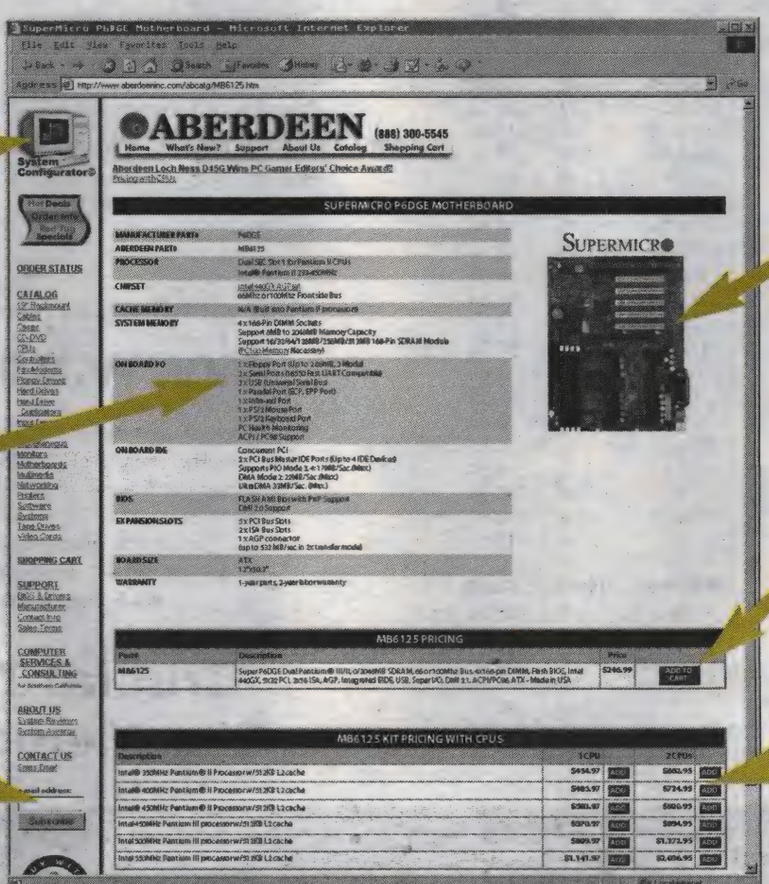
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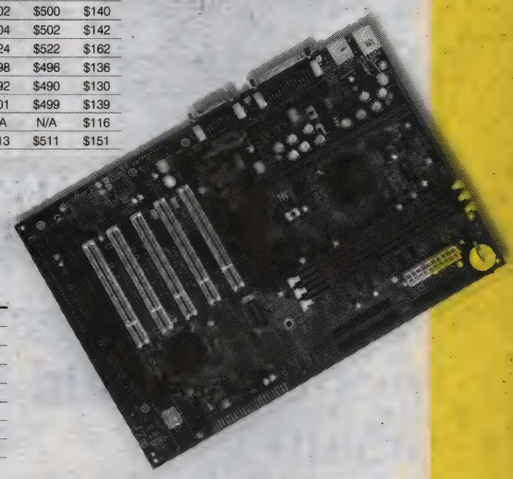
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Socket 7

	Part Number	Chip Set	L2 Cache (KB)	Maximum Memory (MB)	168-pin DIMM Sockets	72-pin SIMM Sockets	Flash BIOS	Integrated Audio	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/AMD-K6-2/350 with 3DNow!™	w/AMD-K6-2/380	w/AMD-K6-2/400	w/AMD-K6-2/450	w/AMD-K6-2/475	w/AMD-K6-III/400	w/AMD-K6-III/450	w/AMD-K6-III/500	w/Intel® Pentium® MMX™ 233MHz
Asus P5A	MB5710	ALi® Aladdin V	512	384	3		Award		5	2	1	ATX	1 Yr.	$95	$160	$179	$185	$220	$260	$278	$317	$515	$155
Asus P5A-B	MB5711	ALi Aladdin V	512	384	3		Award		3	2	1	Baby AT	1 Yr.	$88	$153	$172	$178	$213	$253	$271	$310	$508	$148
EPoX EP-MVP3C-M	MB5402	VIA Apollo MVP3	512	384	3		Award		4	3	1	Baby AT	2 Yrs.	$69	$134	$153	$159	$194	$234	$252	$291	$489	$129
EPoX EP-MVP3G-M	MB5401	VIA Apollo MVP3	1024	384	3		Award		5	2	1	ATX	2 Yrs.	$80	$145	$164	$170	$205	$245	$263	$302	$500	$140
FIC PA-2013 (1MB Cache)	MB5213	VIA Apollo MVP3	1024	384	3		Award		4	2	1	ATX	1 Yr.	$82	$147	$166	$172	$207	$247	$265	$304	$502	$142
FIC PA-2013 (2MB Cache)	MB5214	VIA Apollo MVP3	2048	384	3		Award		4	2	1	ATX	1 Yr.	$102	$167	$186	$192	$227	$267	$285	$324	$522	$162
FIC VA-503+	MB5211	VIA Apollo MVP3	1024	512	2	4	Award		3	3	1	Baby AT	1 Yr.	$76	$141	$160	$166	$201	$241	$259	$298	$496	$136
Shuttle HOT-591P	MB5611	VIA Apollo MVP3	512	256	2	2	Award		3	3	1	Baby AT	1 Yr.	$70	$135	$154	$160	$195	$235	$253	$292	$490	$130
Shuttle HOT-597	MB5616	VIA Apollo MVP3	1024	384	3		Award		4	3	1	ATX	1 Yr.	$79	$144	$163	$169	$204	$244	$262	$301	$499	$139
Tomato Board TX98-3D	MB5804	VIA Apollo VPX	512	256	2	2	AMI	Crystal 3D	4	2	1	Baby AT	3 Yrs.	$56	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	$116
Tyan S1590S Trinity 100AT	MB5006	VIA Apollo MVP3	1024	384	3	2	Award		4	4	1	Mini AT	3 Yrs.	$91	$156	$175	$181	$216	$256	$274	$313	$511	$151



Socket 370

	Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	Flash BIOS	Integrated Audio	Integrated Video	PCI Slots	ISA Slots	AGP Slot	AMR Slot	Format	Manufacturer's Warranty	Motherboard Only	w/Intel® Celeron™ processor 366MHz	w/Intel Celeron processor 400MHz	w/Intel Celeron processor 433MHz	w/Intel Celeron processor 466MHz	w/Intel Celeron processor 500MHz
ABIT BM6	MB6504	Intel® 440BX	768	3	Award			5	2	1		ATX	1 Yr.	$104	$186	$197	$226	$266	$314
FIC CL31-A	MB6410	Intel 440LX	256	2	Award	Yamaha		3	1	1		Micro ATX	1 Yr.	$83	$165	$176	$205	$245	$293
Intel® BI440ZX	MB6914	Intel 440ZX	256	2	Intel/AMI	Creative		3	1	1		Micro ATX	3 Yrs.	$103	$185	$196	$225	$265	$313
Shuttle HOT-661V	MB6306	VIA Apollo Pro	768	3	Award			4	3	1		ATX	1 Yr.	$72	$154	$165	$194	$234	$282
SuperMicro 370SBA	MB6131	Intel 440BX	768	3	AMI			4	3	1		ATX	1 Yr.	$107	$189	$200	$229	$269	$317
SuperMicro 370SVM	MB6132	VIA Apollo Pro+	768	3	AMI			3	1	1		Micro ATX	1 Yr.	$83	$165	$176	$205	$245	$293
SuperMicro 370SWD	MB6139	Intel 810 "Whitney"	512	2	AMI	Intel® 810	Intel® 810	3			1	Micro ATX	1 Yr.	$127	$209	$220	$249	$289	$337
Tyan S1856S Tomahawk BX	MB6014	Intel 440BX	768	3	Award			5	2	1		ATX	3 Yrs.	$105	$187	$198	$227	$267	$315

Slot 1

	Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	Flash BIOS	Integrated Audio	Integrated SCSI	Integrated Networking	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/Intel® Celeron™ processor 366MHz	w/Intel Celeron processor 400MHz	w/Intel Celeron processor 433MHz	w/Intel Pentium® II processor 400MHz	w/Intel Pentium III processor 450MHz	w/Intel Pentium III processor 500MHz	w/Intel Pentium III processor 550MHz	w/Dual Intel Pentium III processor 450MHz	w/Dual Intel Pentium III processor 500MHz
ABIT BH6	MB6503	Intel® 440BX	384	3	Award				5	2	1	ATX	1 Yr.	$97	$195	$215	$242	$302	$377	$607	$877	N/A	N/A
ABIT BX6 (2.0)	MB6502	Intel 440BX	1024	4	Award				3	2	1	ATX	1 Yr.	$117	$215	$235	$262	$322	$397	$627	$897	N/A	N/A
Asus P2B98	MB6705	Intel 440BX	768	3	Award				4	3	1	ATX	2 Yrs.	$131	$229	$249	$276	$336	$411	$641	$911	N/A	N/A
Asus P2B98-S	MB6706	Intel 440BX	1024	4	Award				5	2	1	ATX	2 Yrs.	$329	$427	$447	$474	$534	$609	$839	$1109	N/A	N/A
Asus P2B98-DS	MB6707	Intel 440BX	1024	4	Award				4	2	1	ATX	1 Yr.	$469	$567	$587	$614	$674	$749	$979	$1249	$1029	$2029
Asus P2B-B	MB6714	Intel 440BX	768	3	Award				4	2	1	Baby AT	1 Yr.	$125	$223	$243	$270	$330	$405	$635	$905	N/A	N/A
Asus P2B-F	MB6718	Intel 440BX	1024	4	Award				3	3	1	ATX	1 Yr.	$133	$231	$251	$278	$338	$413	$643	$913	N/A	N/A
EPoX EP-BX3	MB6850	Intel 440BX	768	3	Award				4	2	1	ATX	3 Yrs.	$104	$202	$222	$249	$309	$384	$614	$884	N/A	N/A
FIC KA-6100	MB6408	VIA Apollo Pro	768	3	Award	Yamaha			4	4	1	Baby AT	1 Yr.	$76	$174	$194	$221	$281	$356	$586	$856	N/A	N/A
FIC VB-601	MB6406	Intel 440BX	1024	4	Award				5	2	1	ATX	1 Yr.	$90	$188	$208	$235	$295	$370	$600	$870	N/A	N/A
Intel® SE440BX-2 "Seattle"	MB6913	Intel 440BX	768	3	Intel/Phoenix				4	2	1	ATX	3 Yrs.	$116	$214	$234	$261	$321	$396	$626	$896	N/A	N/A
Promise FT440BX	MB6601	Intel 440BX	1024	4	Award		IDE RAID		4	3	1	ATX	1 Yr.	$145	$243	$263	$290	$350	$425	$655	$925	N/A	N/A
Shuttle HOT-661	MB6305	Intel 440BX	1024	4	Award				4	3	1	ATX	1 Yr.	$92	$190	$210	$237	$297	$372	$602	$872	N/A	N/A
SuperMicro P6DBE	MB6118	Intel 440BX	1024	4	AMI				5	2	1	ATX	1 Yr.	$209	$307	$327	$354	$414	$489	$719	$989	$769	$1769
SuperMicro P6DBU	MB6121	Intel 440BX	1024	4	AMI		Adaptec U2W		5	2	1	ATX	1 Yr.	$429	$527	$547	$574	$634	$709	$939	$1209	$989	$1989
SuperMicro P6DGE	MB6125	Intel 440GX	2048	4	AMI				5	2	1	ATX	1 Yr.	$239	$337	$357	$384	$444	$519	$749	$1019	$799	$1799
SuperMicro P6DGH	MB6129	Intel 440GX	2048	4	AMI		Adaptec 2-Ch U2W		9	2	1	Full AT	1 Yr.	$809	$907	$927	$954	$1014	$1089	$1319	$1589	$1369	$2369
SuperMicro P6DGU	MB6122	Intel 440GX	2048	4	AMI		Adaptec U2W		5	2	1	ATX	1 Yr.	$469	$567	$587	$614	$674	$749	$979	$1249	$1029	$2029
SuperMicro P6SBA	MB6120	Intel 440BX	768	3	AMI				4	3	1	ATX	1 Yr.	$127	$225	$245	$272	$332	$407	$637	$907	N/A	N/A
SuperMicro P6SBU	MB6128	Intel 440BX	1024	4	AMI		Adaptec U2W		4	3	1	ATX	1 Yr.	$339	$437	$457	$484	$544	$619	$849	$1119	N/A	N/A
SuperMicro P6SVA	MB6133	VIA Apollo Pro+	768	3	AMI				4	3	1	ATX	1 Yr.	$79	$177	$197	$224	$284	$359	$589	$859	N/A	N/A
Tyan S1830S Tsunami AT	MB6012	Intel 440BX	1024	4	AMI				4	4	1	Baby AT	3 Yrs.	$125	$223	$243	$270	$330	$405	$635	$905	N/A	N/A
Tyan S1836D Thunder 100 Pro	MB6011	Intel 440BX	1024	4	AMI	ViBRA	Adaptec 2-Ch UW	Intel PRO/100+	6	1	1	Mod. ATX	3 Yrs.	$479	$577	$597	$624	$684	$759	$989	$1259	$1039	$2039
Tyan S1837UANG Thunderbolt	MB6016	Intel 440GX	2048	4	AMI	Creative	Adaptec 2-Ch U2W	Intel PRO/100+	6	1	1	Mod. ATX	3 Yrs.	$559	$657	$677	$704	$764	$839	$1069	$1339	$1119	$2119
Tyan S1846S Tsunami ATX	MB6010	Intel 440BX	768	3	AMI				5	2	1	ATX	3 Yrs.	$106	$204	$224	$251	$311	$386	$616	$886	N/A	N/A

Slot 2

	Part Number	Chip Set	Maximum Memory (MB)	168-pin DIMM Sockets	Flash BIOS	Integrated Audio	Integrated Video	Integrated SCSI	Integrated Networking	PCI Slots	ISA Slots	AGP Slot	Format	Manufacturer's Warranty	Motherboard Only	w/Intel® Pentium® III Xeon processor 500MHz 1024K cache	w/Intel Pentium III Xeon 500MHz 2048K	w/Intel Pentium III Xeon 550MHz 512K	w/Dual Intel Pentium III Xeon 500MHz 1024K	w/Dual Intel Pentium III Xeon 500MHz 2048K	w/Dual Intel Pentium III Xeon 550MHz 512K	w/Quad Intel Pentium III Xeon 500MHz 1024K	w/Quad Intel Pentium III Xeon 500MHz 2048K	w/Quad Intel Pentium III Xeon 550MHz 512K
AMI MegaPlex	MB6214	Intel® 450NX	8192	32	AMI		2MB ATI			12	2		14U Case	1 Yr.	$9929	$12259	$14269	$11029	$14589	$18609	$12129	$19249	$27289	$14329
Asus XG-DLS	MB6713	Intel 440GX	2048	4	AMI			Adaptec 2-Ch U2W	Intel PRO/100+	5	1	1	ATX	1 Yr.	$829	$3159	$5169	$1929	$5489	$9509	$3029	N/A	N/A	N/A
Intel® MS440GX	MB6912	Intel 440GX	2048	4	Intel/Phoenix	Crystal			Intel PRO/100+	6	1	1	Custom ATX	3 Yrs.	$549	$2879	$4889	$1649	$5209	$9229	$2749	N/A	N/A	N/A
SuperMicro S2DG2	MB6136	Intel 440GX	2048	4	AMI			Adaptec 2-Ch U2W		5	2	1	ATX	1 Yrs.	$559	$2889	$4899	$1659	$5219	$9239	$2759	N/A	N/A	N/A
SuperMicro S2DGE	MB6135	Intel 440GX	2048	4	AMI					5	2	1	ATX	1 Yr.	$329	$2659	$4669	$1429	$4989	$9009	$2529	N/A	N/A	N/A
SuperMicro S2DGR	MB6126	Intel 440GX	2048	4	AMI			Adaptec 2-Ch UW		4	2	1	ATX	1 Yr.	$459	$2789	$4799	$1559	$5119	$9139	$2659	N/A	N/A	N/A
SuperMicro S2DGU	MB6127	Intel 440GX	2048	4	AMI			Adaptec U2W		5	2	1	ATX	3 Yr.	$509	$2839	$4849	$1609	$5169	$9189	$2709	N/A	N/A	N/A
Tyan S1952D Thunder X	MB6013	Intel 440GX	2048	4	AMI			Adaptec 2-Ch U2W		6	1	1	Mod. ATX	1 Yr.	$559	$2889	$4899	$1659	$5219	$9239	$2759	N/A	N/A	N/A



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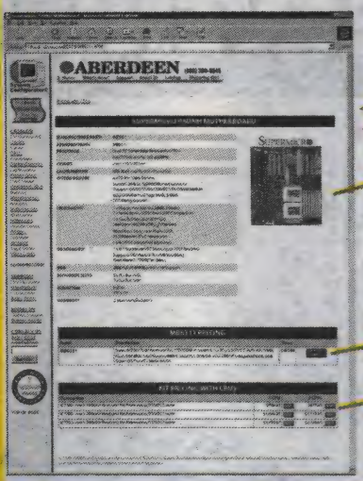
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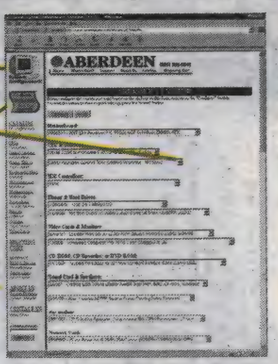
Award-Winning Systems and Peripherals at Your Fingertips



Anatomy of a Useful Website:

NOW! ONLINE ORDER STATUS

- System Configurator© allows you to custom configure systems to your exact specifications with instant pricing
- Detailed specs and pictures on over 70 motherboards and hundreds of other products
- Visit our site and find out why it now gets over 8 Million hits per month
- Red Tag Specials Internet-only specials
- Helpful support section with links to manufacturers' sites, FAQs
- Shopping Cart allows easy and secure online shopping
- Hundreds of motherboard w/CPU combinations
- and much more...



- Reprints of our award-winning systems as reviewed by *Computer Shopper*, *PC Magazine*, CNet

www.aberdeeninc.com/shop

"This site rocks!" *e-mail from enthusiastic visitor*

YOU CAN CHANGE OUR SPOTS

Some people in our business say you can customize their systems, but they really mean you can choose a monitor and keyboard, while the box comes with their spots all over it.

At Aberdeen, you start by selecting the empty case that best suits your needs, and build your system component by component. The result is a system that perfectly meets your unique wants and needs.

We offer over 70 motherboards. One of them is the right one for you. Add one or more processors. Load up with memory. Give it killer graphics. Design the computer of your dreams and we'll build it for you.

Don't have a cow, man. Have a computer.

100% CUSTOM BUILT SYSTEMS

ABERDEEN GAMING DESKTOPS

"what a real gaming system should be all about"

PC Gamer Editors' Choice
April-1999

"...how do we render a judgment on the quality of one computer system versus another? We just have to look a bit harder at the subtle things that set these systems apart. What sort of case is the system housed in? How much does it cost? Is it a split-second faster than the competition in most of our benchmarked tests? Is it easily upgradeable if you decide you want to change hardware? With these questions in mind, we gave Aberdeen's 450MHz (now available at 600MHz) system a thorough test-drive and discovered that it offers a good deal of power and reliability at a very good price."

PC Gamer - April 1999

ABERDEEN LOCH NESS D45G
INTEL® PENTIUM® III PROCESSOR 600MHz

▼ *PC Gamer Editors' Choice*

- Abit BX6 Motherboard with Intel 440BX AGPset and 100MHz Frontside System Bus
- 512KB ECC Integrated L2 cache
- 128MB 100MHz SDRAM PC100 Memory (1GB Max)
- *NEW* IBM Deskstar 10GXP DTTA-371010 10.1GB 9.5ms 7200rpm Ultra DMA Hard Drive with 512KB Buffer
- *NEW* Diamond Viper V770 AGP 4X Graphic Accelerator with NVIDIA RIVA TNT2 and 32MB SDRAM
- Optiquest V95 19" (18") .26mm dp 1600x1200@76Hz Monitor
- Toshiba SD-M1202 DVD 4.8X DVD 32X CD-ROM
- *NEW* Aureal Vortex2 SuperQuad Digital PCI Aureal AU8830 A3D 2.0 320-Voice Wavetable Sound Card
- Creative Labs Cambridge Soundworks PC Works FourPointSurround 5-Piece Shielded Speaker System
- LS-120 120MB / 1.44MB Floppy Disk Drive
- SmartLink 56K V.90 PCI Voice Faxmodem
- SmartLink 10/100 PCI Ethernet Network Card
- Super Middle Tower: 8 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 4 External 5.25" (1 Used) / 1 Internal 5.25"
- 250W ATX v2.01 UL Power Supply



- Logitech WingMan Extreme Digital Joystick
- ThrustMaster Rage 3D Gamepad
- Logitech USB Wheel Mouse
- MS Windows® 98 Preinstalled, CD-ROM Included

PENTIUM III PROCESSOR 600MHz $2699
PENTIUM III PROCESSOR 550MHz $2499

ABERDEEN DESKTOPS

ABERDEEN INVERNESS D84
INTEL® CELERON™ PROCESSOR 500MHz

- SuperMicro 370SWD Motherboard with Intel 810 Chipset and 66MHz Frontside System Bus
- 128KB Integrated L2 cache
- 64MB SDRAM Memory (512MB Max)
- Quantum Fireball CR 4.3GB QM34300CR-A 5400rpm 9.5ms Ultra ATA/66 Hard Drive with 512KB Buffer
- Integrated Intel 810 2D/3D Video with 4MB Cache
- Tatung C5BZE 15" (13.7") .28mm dp 1024x768@70Hz Monitor
- Acer CD-640A 40X Max Variable CD-ROM
- SmartLink 56K V.90 PCI Voice Faxmodem
- Integrated Intel 810 AC97 Audio
- MLi-168 2x5W Shielded Speaker System
- Teac 3½" 1.44MB Floppy Disk Drive
- SuperMini Tower: 7 Drive Bays: 1 External 3.5" (1 Used) / 4 Internal 3.5" (1 Used) / 3 External 5.25" (1 Used)
- 235W ATX v2.01 UL Power Supply
- Acer 104-key Keyboard, Logitech Wheel Mouse
- MS Windows® 98 Preinstalled, CD-ROM Included
- 7 Expansion Slots: 5 PCI Slots (2 Used) / 2 ISA Slots (0 Used) / 1 AGP (Used) Slot

INTEL CELERON PROCESSOR 500MHz $899
INTEL CELERON PROCESSOR 466MHz $859
INTEL CELERON PROCESSOR 366MHz $779

ABERDEEN INVERNESS D15
INTEL® PENTIUM® III PROCESSOR 600MHz

- SuperMicro P6SBA Motherboard with Intel 440BX AGPset and 100MHz Frontside System Bus
- 512KB ECC Integrated L2 cache
- 128MB 100MHz SDRAM PC100 Memory (768MB Max)
- Western Digital Expert AC418000 18GB 7200rpm 9ms Ultra ATA/66 Hard Drive with 2048KB Buffer
- ATI XPERT128 AGP 2X Graphic Accelerator with RAGE128GL and 16MB SDRAM
- Optiquest V75 17" (16") .26mm dp 1600x1200@77Hz Monitor
- Toshiba SD-M1202 DVD 4.8X DVD 32X CD-ROM
- Intel EtherExpress PRO/100+ TX PCI Network Card
- Aureal Vortex2 SuperQuad Digital PCI 320-Voice Wavetable A3D 2.0 Sound Card with Aureal AU8830
- Creative Labs Cambridge Soundworks PC Works 3-Piece Shielded Speaker System
- LS-120 120MB / 1.44MB Floppy Disk Drive
- Super Middle Tower: 8 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 4 External 5.25" (1 Used) / 1 Internal 5.25"
- 250W ATX v2.01 UL Power Supply
- Microsoft Natural Keyboard, Logitech USB Wheel Mouse
- MS Windows® 98 Preinstalled, CD-ROM Included

PENTIUM III PROCESSOR 600MHz $2499
PENTIUM III PROCESSOR 500MHz $2059

SERVERS

ABERDEEN SERVER S19U
INTEL® PENTIUM® III PROCESSOR 600MHz

- SuperMicro P6DBU Motherboard with Intel 440BX AGPset and 100MHz Frontside System Bus
- Dual Processor Capable
- 512KB ECC Integrated L2 Cache
- 128MB 100MHz SDRAM PC100 Memory (1024MB Max)
- Quantum Atlas IV QM309100KN-LW 9.1GB 7200rpm 6.9ms Ultra160/m SCSI Hard Drive with 2048KB Buffer
- Adaptec AIC-7890 Ultra2 SCSI Controller
- Jaton Video-97AGP 2X Graphic Accelerator with Trident 3DImage 985 and 4MB SGRAM
- Acer CD-640A 40X Max Variable CD-ROM
- 3Com Fast EtherLink XL TX 10/100 PCI Adapter
- Teac 3½" 1.44MB Floppy Disk Drive
- Server Tower 11 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 7 External 5.25" (1 Used) / 1 Internal 5.25" (0 Used)
- 300W ATX v2.01 UL Power Supply
- Acer 104-key Keyboard, Logitech Wheel Mouse
- MS Windows NT® Server 4.0 w/5 Client Access Licenses
- 7 Expansion Slots: 4 PCI Slots (2 Used) / 3 ISA Slots (0 Used) / 1 AGP (0 Used) Slot

PENTIUM III PROCESSOR 600MHz $3099
Dual PENTIUM III PROCESSORS 450MHz $2649
PENTIUM III PROCESSOR 450MHz $2379

WORKSTATIONS

ABERDEEN INVERNESS W24X
PENTIUM® III XEON™ PROCESSOR 550MHz

- SuperMicro S2DG2 Motherboard with Intel 440GX AGPset and 100MHz Frontside System Bus
- Dual Processor Capable
- 2048 / 1024 / 512KB ECC Integrated L2 cache
- 256MB 100MHz SDRAM PC100 Memory (2048MB Max)
- IBM Ultrastar 18ZX DRVS 18.2GB 10020rpm 6.5ms Ultra2 SCSI LVD Hard Drive w/4096KB Buffer
- Adaptec 7896 Dual Channel LVD Controller with RAIDport III
- Leadtek WinFast 3D L3100 AGP Graphic Accelerator with Dual 3Dlabs Glint GMX 2000 and Gamma / 16MB VRAM Frame Buffer, 80MB EDO DRAM Local Buffer / OpenGL, Heidi, Direct3D, DirectDraw
- ViewSonic P817 Xtreme Monitor™ 21" (20") .26mm dp 2048x1536@85Hz Monitor with USB
- Toshiba XM-6502B 40X Max Variable CD-ROM
- Server Tower 11 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 7 External 5.25" (1 Used) / 1 Internal 5.25" (0 Used)
- 300W ATX v2.01 UL Power Supply
- Acer Keyboard (mechanical keyswitch), Two USB Ports, MS IntelliMouse®
- MS Windows NT® Workstation 4.0
- 7 Expansion Slots: 4 PCI Slots (1 Used) / 3 ISA Slots / 1 AGP (Used) Slot

XEON PROCESSOR 500MHz 2MB CACHE $9699
XEON PROCESSOR 500MHz 1MB CACHE $7699
XEON PROCESSOR 550MHz 512K CACHE $6499

LINUX SERVERS

ABERDEEN SERVER S60L
INTEL® PENTIUM® III PROCESSOR 600MHz

- SuperMicro P6SBU Motherboard with Intel 440BX AGPset and 100MHz Frontside System Bus
- 512KB ECC Integrated L2 Cache
- 128MB 100MHz SDRAM PC100 Memory (1024MB Max)
- Quantum Atlas IV QM309100KN-LW 9.1GB 7200rpm 6.9ms Ultra160/m SCSI Hard Drive with 2048KB Buffer
- Seagate TapeStor 8000 4/8GB TR-4/QIC-3095 SCSI-2 Tape Back-up
- Microlite Backup Edge for Linux
- Adaptec AIC-7890 Ultra2 SCSI Controller
- Diamond SpeedStar A50 AGP 2X Graphic Accelerator with SiS6326AGP and 8MB SDRAM
- Toshiba XM-6401B SCSI 40X Max Variable CD-ROM
- 3Com Fast EtherLink XL TX 10/100 PCI Adapter
- Teac 3½" 1.44MB Floppy Disk Drive
- Super Middle Tower: 8 Drive Bays: 1 External 3.5" (1 Used) / 2 Internal 3.5" (1 Used) / 4 External 5.25" (2 Used) / 1 Internal 5.25"
- 250W ATX v2.01 UL Power Supply
- 8/9 cm Thermal Control Back-up Fan
- Acer 104-key Keyboard, Microsoft IntelliMouse
- Red Hat Linux 6.0
- 7 Expansion Slots: 4 PCI Slots (2 Used) / 3 ISA Slots (0 Used) / 1 AGP (0 Used) Slot

PENTIUM III PROCESSOR 600MHz $2699
PENTIUM III PROCESSOR 550MHz $2499
PENTIUM III PROCESSOR 500MHz $2229
PENTIUM III PROCESSOR 450MHz $1999

intel inside
pentium® III xeon™

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3Dlabs Oxygen VX1 **Permedia 3** 32MB $239.99
3Dlabs Oxygen GMX **GLINT 2000** 96MB .$1695.99
Creative 3D Blaster **RIVA TNT2** Ultra 32M..$235.99
Creative 3D Blaster **Savage4** 32MB.....$135.99
Jaton 57P/58P/67P/67TV/77TV Trident PCI....$Call
Jaton 97AGP2X Trident 975 2M/4M ..$28.99/31.99
Leadtek S320 RIVA TNT 16MB SDRAM $119.99
Leadtek S320 **RIVA TNTII** 32M **AGP4X**.....$179.99
Leadtek S320 **RIVA TNTII Ultra** 32M.....$209.99
Number 9 SR9 **S3 Savage4** 32MB **AGP4X**$158.99
Number 9 Revolution IV 16MB/32MB.....$143/173
Number 9 Digital Flat Panel Solution Pack.....$2599
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3dfx

3Dfx **Voodoo2** 1000 12MB PCI 3D add-on $107.99
3Dfx **Voodoo3** 2000 16MB AGP/PCI.....$116.99
3Dfx **Voodoo3** 3000 16MB AGP $161.99
3Dfx **Voodoo3** 3500 16MB AGP $249.99

ATi

3D Charger 2M/4M/8M PCI/AGP.....$24/33/44
All-in-Wonder Pro 8MB PCI/AGP $125.99
All-in-Wonder Pro 128 16MB/32MB $219/Call
RAGE Fury **RAGE 128** 32MB AGP $158.99
RAGE Magnum **RAGE 128** 32MB AGP.....$143.99
Xpert128 **RAGE 128** 16MB AGP $89.99
Xpert98 RAGE PRO 8MB SDRAM.....$49.99
Xpert99 **RAGE 128** 8MB SDRAM.....$69.99
Xpert@Play98 RAGE PRO PCI/AGP $58.99

DIAMOND MULTIMEDIA

Monster Fusion **3Dfx Banshee** 16MB $93.99
SpeedStar A50 SiS 6326 AGP2X 4M/8M.....$36/47
Stealth III S540 **S3 Savage4** 32M **AGP4X**..$139.99
Viper V550 RIVA TNT 16MB OEM/Retail....$99/135
Viper V770 **RIVA TNTII** 32MB **AGP4X** $189.99
Viper V770 Ultra **RIVA TNTII Ultra** 32MB...$249.99

matrox

Marvel G200-TV 8MB Retail.....$279.99
Millennium G200 16M SD Retail.....$119.99
Millennium G400 **AGP4X**16M/32M Retail $179/229
Millennium G400 MAX **AGP4X** 32M Retail $279
Mystique G200 8MB Retail.....$111.99

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NEW LOWER PRICES

Quantum Seagate
Western Digital Maxtor IBM

Enhanced IDE

4.3GB Quantum Fireball CR **Ultra/66**.....$109.99
4.3GB WD AC14300 9.5ms **Ultra/66**.....$119.99
6.4GB WD AC26400 9.5ms **Ultra/66** $133.99
8.4GB Maxtor 90845D5 9ms $136.99
8.4GB Quantum Fireball CR **Ultra/66**.....$139.99
8.4GB WD AC28400 9.5ms **Ultra/66**.....$145.99
9.1GB WD Expert AC29100 7200rpm.....$189.99
10.1GB IBM Deskstar 10GP 9.5ms $169.99
10.1GB IBM Deskstar 10GXP 7200rpm $215.99
10.2GB Maxtor 91024D4 9ms 7200rpm ..$249.99
10.2GB WD AC310200 9.5ms **Ultra/66** ...$169.99
11.9GB Maxtor 91190D7 9ms 5400rpm ..$219.99
13.0GB Quantum Fireball CR **Ultra/66** $229.99
13.3GB WD AC313000 **Ultra/66** $189.99
13.6GB Quantum Fireball KA 7200rpm.....$279.99
14.4GB IBM Deskstar 14GXP 7200rpm $332.99
17.2GB Maxtor 91728D8 9ms 5400rpm ..$255.99
17.2GB Seagate ST317242A 9ms **Ultra66**$489.99
18.0GB IBM Deskstar 18GXP 7200rpm $336.99
18.0GB WD Expert AC418000 7200rpm....$328.99
18.2GB Quantum Fireball KA 7200rpm $349.99
20.4GB Maxtor 92048D8 9ms 7200rpm ..$422.99
20.4GB WD AC420400 9.5ms **Ultra/66** $309.99
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4.5GB Seagate ST34502LW **10000** rpm....$489.99
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9.1GB Quantum 309100TD-LW 7.8ms $439.99
9.1GB Seagate ST39173LW 7.1ms $429.99
9.1GB Seagate ST39102LW **10000** rpm....$579.99
18.2GB IBM 18ZX DRVS **10000** rpm $929.99
18.2GB Quantum 318200TD-LW 7.8ms $768.99
18.2GB Seagate ST118273LW 7.1ms $768.99
18.2GB Seagate ST118202LW 5.7ms $979.99
36.4GB IBM Ultrastar 36XP 7.5ms $1399.99
36.4GB Seagate ST136403LW **10000** rpm .....$Call
50.1GB Seagate ST150176LW 7.4ms .....$Call

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9.2GB Quantum Atlas10K **10000** rpm $598.99
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KDS Advanced Replacement Expedite Service—KARES—(optional) 2-3 days replacement.

15" AV-5T 1280 NI .25 **Trinitron** *CRI301*.....$199.99
15" VS-5e 1280 NI .28 (Spkr Opt.) $168.99/173.99
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15" VS-7e 1280 NI .28 (Spkr Opt.) $229.99/259.99
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15" C5DZE 1024 NI .28 OSD *CRI736*.....$143.99
17" C7BZR-25 1280NI .25 OSD *CRI734*.....$225.99
19" C9NZR 1280NI .26 OSD *CRI735*.....$427.99

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15" Opti Q51 1024@67Hz .28 *CRI808*.....$152.99
17" G773 1280@76Hz .26 **USB** *CRI804*.....$318.99
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19" MB90 w/Spkrs .26 **USB** *CRI824* $560.99
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19" PS790 1600@76Hz .25 **Short Depth** .$565.99
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CASES

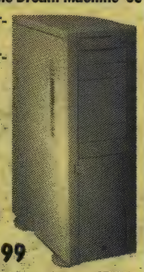
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SuperMicro SC730A 235W $89.99
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- 8 x 5¼" bays (1 internal)
- 3 x 3½" bays (2 internal)
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- 8 cm thermal back-up fan, room for 4 more optinal fans
- Swing out doors
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CONTROLLERS

Adaptec AHA-2910C Kit Fast SCSI-2 PCI....$98.99
Adaptec AHA-2940U2W Ultra 2 80MB/sec $389.99
Adaptec AHA-2940UW Ultra W 40MB/sec .$209.99
Adaptec ARO-1130CA RAIDport II Wrkstn .$399.99
Adaptec ARO-1130SA RAIDport II Server ..$299.99
Mylex DACPJM i960RD PCI 3-Chl RAID ..$1659.99
Mylex eXtremeRAID Ultra2 3-Chl RAID $1779.99
Promise FastTrak IDE RAID (0, 1, 0+1) $84.99
Promise Ultra66 PCI UltraATA/66 .....$55.99
RAIDport III PCI Workstation $289.99

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DVD Drives / MPEG Decoding

Creative PC-DVD Encore 6X Dxr3 .....$239.99
Toshiba SD-M1202 4.8X/32X ATAPI DVD $104.99
Toshiba SD-M1201 5X/32X SCSI DVD.....$159.99
REALmagic Hollywood+ DVD Decoder.....$79.99

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Kenwood TrueX 52X ATAPI CD-ROM.....$119.99
Kenwood TrueX 52X SCSI CD-ROM.....$185.99
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Toshiba XM-6502B 40X ATAPI CD-ROM $57.99

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HP SureStore CD-Writer 8100i 2X/4X/24X $298.99
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Plextor PlexWriter 8X/20X CD-R SCSI $439.99
Yamaha CRW4416E 4X/4X/16X EIDE $295.99
Yamaha CRW4416S 4X/4X/16X SCSI $358.99

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Aureal **Vortex2** SuperQuad PCI **A3D 2.0** $56.99
Diamond Monster Sound MX300 PCI $95.99
Sound Blaster 16 WAV effects *BS907*.....$24.99
Sound Blaster AWE 64 Value OEM/Ret $36/92
Sound Blaster PCI 128 Retail *BS909*.....$66.99
Sound Blaster Live! PCI Value Retail $91.99
Sound Blaster Live! PCI Retail $181.99

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Altec Lansing ADA305 **Digital USB** 3-pc ..$153.99
Cambridge PCWorks 3-pc.....$59.99
Cambridge PCWorks FourPointSurround $86.99
Cambridge FPS2000 **Digital** 5-pc.....$195.99
Cambridge SoundWorks 3-pc $129.99
Cambridge DeskTop Theater 5.1 .....$249.99
S2 / MidiLand 4030 4-pc $129.99
S2 / MidiLand 4100 4-pc $345.99

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Iomega Jaz 2GB Internal SCSI $299.99
Iomega Zip 250MB External SCSI-2.....$194.99
Iomega Zip 100MB ATAPI/SCSI Insider bulk $74/94
Iomega Zip 100MB External par/**USB**.....$106/132
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LS-120 "SuperDisk" Int. Drive.....$89.99
OnStream DI30/SC30/SC50 Digital (ADR).....$Call

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2Mx64 (16MB) 168-pin SDRAM *MYDM427* ..$20.99
4Mx32 (16MB) 72-pin 60ns *MYM693*.....$29.99
4Mx32 (16MB) 72-pin 60ns EDO *MYM375*...$31.99
4Mx36 (16MB) 72-pin 60ns Parity *MYM760* .$38.99
4Mx64 (32MB) 168-pin SDRAM *MYDM401* ..$33.99
8Mx32 (32MB) 72-pin 60ns *MYM681*.....$54.99
8Mx32 (32MB) 72-pin 60ns EDO *MYM391* ...$53.99
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16Mx32 (64MB) 72-pin 60ns.....$139.99
16Mx32 (64MB) 72-pin 60ns EDO $115.99
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Wide selection of 30, 72-pin SIMMs, 168-pin DIMMs, ECC, SDRAM.....$Call

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All Peripheral and Corsair memory modules are built with the highest quality components and guaranteed for compatibility, or your money-back within 30-days of purchase without any restocking fees. Lifetime warranty.

64-bit 168-pin PC100 SDRAM

4Mx64 (32MB) PC100 SDRAM $38.99
8Mx64 (64MB) PC100 SDRAM $69.99
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16Mx64 (128MB) PC100 SDRAM $141.99
16Mx64 (128MB) PC100 SDRAM CAS-2..$145.99

72-bit 168-pin PC100 ECC SDRAM w/Parity

8Mx72 (64MB) PC100 SDRAM $87.99
8Mx72 (64MB) PC100 SDRAM CAS-2 .....$123.99
16Mx72 (128MB) PC100 SDRAM $171.99
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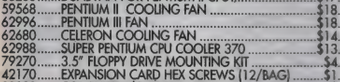
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62721	USB AA M/F CABLE 10 FT	$9.90
63218	USB AA M/F CABLE 15 FT	$13.35
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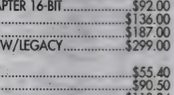
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62749	VIPER V550 16MB AGP	$126.34
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62622	740 3D AGP 8MB	$50.80
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57400	5446 SVGA 1MB + MPEG PCI	$39.90
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63356	W91800048	9.1GB	SCSI-W	$435.72
63230	W183000048	18.3GB	SCSI-W	$744.06
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63221	ST38420A	8.4GB	EIDE	$163.10
63222	ST310230A	10.2GB	EIDE	$188.10
63231	ST118273W	18.2GB	SCSI-W	$761.90

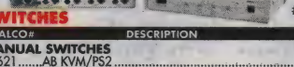

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56880	Y-MOUSE Y-SEE TWO	$79.90

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62463	56K EXT FAX V.90	$96.90
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62815	56K PC CARD V.90	$170.70


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38622	ABCD KVM/PS2	$37.50
38652	BI-TRONICS 2 PC/1 PTR	$29.80
38653	BI-TRONICS 4 PC/1 PTR	$37.25
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59300	2 TO 1/1 TO 2 BI-TRONICS	$59.80
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62420	ATX DESKTOP 235W	$65.90
62419	ATX MID TOWER 235W	$69.99
62418	ATX FULL TOWER 250W	$99.90
62759	HAWKING FD7130XP ATX CHASSIS	$209.00

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59452	AT MINI TOWER 200W	$49.90
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59558	ATX MID TOWER 250W	$79.90
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62934	MS5184 PENTIUM MVP3 AT	$92.31
62485	MS6119 PENTIUM II 440BX AGP ATX	$117.95
62652	MS6120 PENTIUM II 440BX AGP ATX	$348.50
62799	MS6147 PENTIUM II MICRO ATX	$184.60
62937	MS6153 PENTIUM II BX AGP ATX	$115.40
62938	MS6163 PENTIUM II BX AGP ATX	$133.34
ASUS		
62723	P5AB PENTIUM ALADDIN 5 AT	$98.71
62724	P5A PENTIUM ALADDIN 5 ATX	$105.13
63241	P5S-VM PENTIUM S1S530 MICRO ATX	$108.80
62991	MEL-M PENTIUM II LX	$127.50
63177	P2B-B PENTIUM II BX AT	$140.00
62985	P2B-F PENTIUM II BX ATX	$146.25
62649	P2B-DS DUAL PENTIUM II 440BX AGP ATX	$511.25
62769	P2B-S PENTIUM II BX ATX	$362.03
INTEL		
62925	SE440BX2NA PENTIUM II ATX	$126.16
62927	BI440ZX PENTIUM II ZX MICRO ATX	$109.80
TEKRAM		
62789	P5MUPA4 PENTIUM VIA MVP AT	$77.60
62819	P5MUPB4 PENTIUM VIA MVP AT	$90.80
62792	PGB40A-4X PENTIUM II BX ATX	$117.42
62791	PGB40DA5 DUAL PENTIUM II BX ATX	$234.84

KEYBOARDS & MICE

DALCO#	DESCRIPTION	PRICE
62879	KEY TRONIC PS/2 CLASSIC KEYBOARD	$25.50
63130	QTRONIX PS/2 104 KEY KEYBOARD	$12.90
63246	QTRONIX SCORPIUS 980+ USB KYBD	$24.90
63243	QTRONIX SCORPIUS/2 NET MEDIA KYBD	$27.50
63251	TOUCH PAD SERIAL/PS2	$36.90
63254	STRETCH BALL PS/2 MOUSE	$31.50
53630	ERGONOMIC 3-BUTTON MOUSE	$5.50
98925	AT 142-KEY PROGRAMMABLE KEYBOARD	$99.90
81925	SEJIN 101 KEY LEFT-HANDED	$89.90
62517	MICROSOFT PS/2 NATURAL ELITE WHITE BOX	$38.16
57951	MICROSOFT SERIAL MOUSE WHITE BOX	$17.76
57952	MICROSOFT PS/2 MOUSE WHITE BOX	$17.54
59777	MICROSOFT SERIAL INTELLIMOUSE WHITE BOX	$27.39
59778	MICROSOFT PS/2 INTELLIMOUSE WHITE BOX	$27.39
62729	KENSINGTON MOUSE IN A BOX SCROLL	$24.47
61816	LOGITECH FIRST MOUSE PLUS	$27.41
62773	LOGITECH CORDLESS WHEEL MOUSE	$56.90

NETWORKING

DALCO#	DESCRIPTION	PRICE
DALCO		
53930	10BASE-T ISA	$13.50
53950	10BASE-T/S PCI BUS MASTERING	$32.00
3COM		
62345	3C16723 4 PORT 100TX HUB TP400	$102.23
62454	3C905BTX ELXL 10/100 PCI WHITE BOX	$79.00
61680	3C16704 OC 4 PORT HUB TP4	$48.26
HAWKING TECHNOLOGY		
61867	PN102TX 10/100TX PCI CARD	$15.85
53530	PN500TB 5 PORT MINI HUB	$26.83
62757	PN800DH 10/100 8 PORT HUB	$131.72
53515	PN1700T 10BASE-2T ISA	$18.00
62341	PN0456 10BASE-2T PCI	$18.00
62752	PN6125 PRINT SERVER	$52.44
62827	PN73 10/100 3 PORT PRINT SERVER	$134.16
LINKSYS		
53210	LNE100TX 10/100TX PCI	$27.70
53235	EW5HUB 5 PORT HUB	$35.72
62800	EFAH05W 10/100 5 PORT HUB	$91.07

SURGE & UPS

DALCO#	DESCRIPTION	PRICE
62699	6 OUTLET SURGE W/ REMOTE CONTROL	$24.65
46734	8 OUTLET SURGE ADAPTER STRIP	$16.65
51238	6 OUTLET POWER CENTER PRO W/ MODEM	$29.85
CURTIS		
62602	9 OUTLET W/ DUAL MODEM PROTECTION	$36.40
APC		
54675	APC PROFESSIONAL 7 SURGE	$28.00
62556	APC BACKUPS 300 UPS	$92.00
TRIPPLITE		
60950	TRIPPLITE ISOBAR 4 ULTRA SURGE	$45.40
62568	TRIPPLITE BC PERSONAL 450 UPS	$108.20

MEMORY & CPU'S

DALCO#	DESCRIPTION
SIMMS	
20005	2 X 36 8MB PARITY
20000	4 X 36 16MB PARITY
20185	2 X 32 8MB NON PARITY
20190	4 X 32 16MB NON PARITY
20195	8 X 32 32MB NON PARITY
20205	2 X 32 8MB EDO
20265	4 X 32 16MB EDO
20270	8 X 32 32MB EDO
20440	16 X 32 64MB EDO
DIMMS	
20495	128MB EDO BUFFERED
20420	32MB EDO 3.3V UNBUFFERED
20415	64MB EDO 3.3V UNBUFFERED
20470	32MB SDRAM PC 100MHZ BX
20475	64MB SDRAM PC 100MHZ BX
20480	128MB SDRAM PC 100MHZ BX
CPUS	
25265	INTEL PENTIUM II CELERON A 300
25270	INTEL PENTIUM II CELERON A 333
25271	INTEL PENTIUM II CELERON A 366
25272	INTEL PENTIUM II CELERON A 400
25278	INTEL PENTIUM II SOCKET 370 CELERON A 400
25185	INTEL PENTIUM II 333
25205	INTEL PENTIUM II 350
25210	INTEL PENTIUM II 400
25260	INTEL PENTIUM II 450
25280	INTEL PENTIUM III 450
25281	INTEL PENTIUM III 500
25286	INTEL PENTIUM III 550
25235	AMD K6 II 266
25277	AMD K6 II 366
25288	AMD K6 II 380
25283	AMD K6 II 450
25285	AMD K6 II 475
25287	AMD K6 III 450
25240	AMD K6-2 300 3D MMX
25275	AMD K6-2 350 3D MMX
25277	AMD K6-2 366 3D MMX
25279	AMD K6-2 400 3D MMX
25282	AMD K6-3 400 3D MMX

MEMORY AND CPU PRICES CHANGE FREQUENTLY DUE TO MARKET CONDITIONS. PLEASE CALL FOR CURRENT PRICING.

STORAGE & MEDIA

DALCO#	DESCRIPTION	PRICE
17613	IOMEGA ZIP 250MB	$19.98
38755	COMPACT 3.5" MEDIA BOX(HOLDS 50)	$1.75
63057	CD STORAGE PAGE REFILLS(3 PAGES-24 DISKS)	$5.90
50655	TENEX 3.5" MODULAR DRAWER(HOLDS 75)	$19.50
17130	MAXELL 3.5" DISK 20-PACK	$10.00
17246	MAXELL HS4 4MM 2-PACK	$12.00
17236	MAXELL HS8 100MB 2-PACK	$11.50
17150	MAXELL ZIP DISK 3-PACK	$39.50
17341	MAXELL CDRW 650MB	$13.18
17323	MAXELL CDR74 BLANK 10-PACK	$19.19
62384	MAXELL TR-4 TRAVAN 2-PACK	$61.49
17260	MAXELL DLT III XT 15GB	$41.90

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DALCO#	DESCRIPTION	PRICE
62998	GENIUS SOUNDMAKER 3DX2	$15.80
62914	TRIDENT 4DWAVE 64 PCI	$29.90
62482	CREATIVE ENSONIQ PCI WHITE BOX	$25.69
62912	CREATIVE SOUND 16 3D WHITE BOX	$25.78
59443	AWE64 VALUE WHITE BOX	$41.69
62777	SOUNDBLASTER PCI 128 WHITE BOX	$47.15
64018	SOUNDBLASTER PCI 512 WHITE BOX	$62.50
62990	SOUNDBLASTER LIVE WHITE BOX	$66.70
62434	LABTEC LCS1016 SPEAKERS	$30.84
58805	LABTEC LCS1012 SPEAKERS	$21.76

PRINTERS & SCANNERS

DALCO#	DESCRIPTION	PRICE
62969	MICROTEK SLIMSCAN C6 SCANNER	$98.25
62575	MICROTEK SCANMAKER X6 SCANNER	$149.70
63204	HP SCANJET 5200CXI SCANNER	$301.70
90016	EPSON STYLUS 440 COLOR PRINTER	$132.87
90017	EPSON STYLUS 640 COLOR PRINTER	$184.15
62470	EPSON FX880 PRINTER	$246.50

MONITORS

DALCO#	DESCRIPTION	PRICE
MAXTECH		
55200	XT-4871 14" SVGA	$121.43
55195	XT-5862 15" SVGA	$152.40
55425	XT-7861 17" SVGA	$231.40
62781	XT-9881 19" SVGA	$441.86
VIEWSONIC		
62712	G653 15" SVGA	$201.55
62323	G773 17" SVGA	$390.46
62560	GA655 15" SVGA W/SPEAKERS	$231.94
62322	EA771 17" SVGA W/SPEAKERS	$343.83

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IOMEGA		
63214	ZIP 100MB PARA EXTERNAL	$100.57
63215	ZIP 250MB SCSI EXTERNAL	$198.40
62906	JAZ 2GB SCSI INTERNAL	$329.96
HP		
62227	TRAVAN 5GB INTERNAL	$196.65
62784	TRAVAN 8GB INTERNAL	$248.10
SONY		
62863	SUPERSTATION 6.6GB INTERNAL	$149.85

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WINLIST Windows Magazine 1998

Monitor sold separately

AT-A-GLANCE

Item #	CPU	Monitor	RAM	Hard Drive	CD-ROM †	Video	Motherboard	Software	PRICES Tiger Credit Card	Price
CTSTM44B	AMD K6-300MHz	15"	32MB PC 100	3.2GB UDMA	24X	PCI/2MB	AT/512KB Cache	Windows 98	$18/Month	$579.99
CTSTM28B	Cyrix MII 300	15"	64MB PC 100	4.3GB UDMA	24X	PCI/4MB	AT/512KB Cache	Windows 98	$18/Month	$599.99
CTSTM40	AMD K6-2/450 3DNow!	15"	64MB PC 100	6.4GB UDMA	32X	AGP/8MB	AT/1MB Cache	Windows 98	$22/Month	$719.99
CTSTM17C	AMD K6-2/350 3DNow!	17"	64MB PC 100	6.4GB UDMA	32X	AGP/8MB	AT/1MB Cache	Windows 98	$23/Month	$759.99
CTSTM35C	AMD K6-2/350 3DNow!	17"	128MB PC 100	10GB UDMA	32X	AGP/8MB	AT/1MB Cache	Windows 98	$25/Month	$829.99
CTSTM37	AMD K6-2/400 3DNow!	17"	128MB PC 100	10GB UDMA	32X	AGP/8MB	ATX/1MB Cache	Windows 98	$26/Month	$869.99
CTSTM12	Pentium II 400MHz	17"	96MB PC 100	10GB UDMA	32X	AGP/8MB	ATX/Slot 1	Windows 98	$29/Month	$959.99
CTSTM29B	Pentium III 450	17"	64MB PC 100	8GB UDMA	32X	AGP/8MB	ATX/Slot 1	Windows 98	$32/Month	$1049.99
CTSTM39	AMD K6-III/400 3DNow!	17"	128MB PC 100	13GB UDMA	40X	AGP/8MB	ATX/1MB Cache	Windows 98	$32/Month	$1049.99
CTSTM47	AMD K6-III/450 3DNow!	17"	128MB PC 100	19GB UDMA	40X	AGP/8MB	ATX/1MB Cache	Windows 98	$34/Month	$1129.99
CTSTM41	Pentium III 500	15"	64MB PC 100	6.4GB UDMA	32X	AGP/8MB	ATX/Slot 1	Windows 98	$36/Month	$1199.99
CTSTM42	Pentium III 450	17"	128MB PC 100	13GB UDMA	40X	AGP/8MB	ATX/Slot 1/Socket 370	Windows 98	$34/Month	$1139.99
CTSTM43	Pentium III 500	17"	128MB PC 100	13GB UDMA	40X	AGP/8MB	ATX/Slot 1/Socket 370	Windows 98	$42/Month	$1379.99
CTSTM45	Pentium III 550	17"	128MB PC 100	19GB UDMA	40X	AGP/8MB	ATX/Slot 1/Socket 370	Windows 98	$51/Month	$1689.99

* Monthly payments when purchased using the Tiger Credit card. Ask about special financing programs available. Call for on-site installation. † CD-ROM speeds are variable, maximum speeds are shown. Sorry, we do not offer price protection in the event prices rise or fall. Call for warranty information. All systems include a 1-year upgradable Depot warranty. See www.tigerdirect.com/warranty for entire policy. Copyright, 1999, TigerDirect. All trademarks acknowledged. Monitor viewable areas: 15"—13.9". 17"—15.8". The AMD logo, K6, 3DNow!, and combinations thereof, are registered trademarks of Advanced Micro Devices, Inc.

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- Ultra DMA Hard Drive
- Microsoft Windows 98

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- Trident 9385 video with 2MB
- MS Windows 98 Pre-Installed

#TNB-1000 ..... $999.99*

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TC1-3000	Speakers	$9.99	$7.99	$6.99

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TC1-4000	40X CD-ROM	$44.99	$41.99	$39.99

3D PCI 4MB Video Card

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- 4MB Memory
- 3D PCI video card

Item #	Description	1–2	3-5	6 or more
TC1-7100	PCI Card	$27.99	$26.99	$25.99

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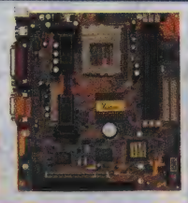
Item #	Description	1–2	3-5	6 or more
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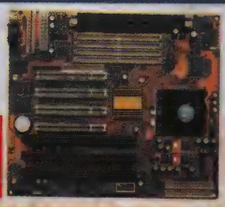
Tiger MATX 741LMRT Socket 370/ Slot 1



M-741LMRT Micro ATX SOCKET 370/Slot 1 with Video, Sound, Modem & NIC on-board

Tiger 741LMRT Form Factor: **M-ATX** • CPU: **Socket 370/Slot 1** • Bus Speed: **Up to 100MHz** • On-board Video: **AGP 8MB** • On-board Audio: **Yes** • PCI Slots: **1** • ISA Slots: **1 (Shared)** • Memory: **3 SIMM** • Max Memory: **768 MB**

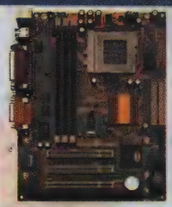
Tiger M-571 AT Socket 7



M-571—AT SOCKET 7 with 4 PCI/2 ISA, PCI Sound & PCI Video with 4MB On-board

Tiger 571 Form Factor: **AT** • CPU: **Socket 7** • Bus Speed: **Up to 75 MHz** • On-board Video: **PCI 4MB** • On-board Audio: **YES** • PCI Slots: **4** • ISA Slots: **3** • Memory: **2DIMM/4SIMM** • Max Memory: **128/256 MB**

Tiger 599 Micro-ATX Socket 7 with AGP



M-599—ATX Socket 7 with 3 PCI/1 ISA, PCI Sound & AGP Video with 8MB On-board

Tiger 599 Form Factor: **M-ATX** • CPU: **Socket 7** • Bus Speed: **Up to 100MHz** • On-board Video: **AGP 8MB** • On Board Audio: **YES** • PCI Slots: **3** • ISA Slots: **1** • Memory: **3 DIMM** • Max Memory: **768 MB**

Tiger ATX 763VT Socket 370/ Slot 1

Motherboard Includes: Motherboard with cable and manual.



ATX Socket 370/Slot 1 with 1 AGP/4 PCI/2 ISA

Tiger 763VT Motherboard At-A-Glance

Form Factor: **ATX** • CPU: **Socket 370/Slot 1** • Bus Speed: **Up to 100MHz** • On-board Video: **No** • On-board Audio: **YES** • PCI Slots: **4** • ISA Slots: **2** • Memory: **DIMM** • Max Memory: **768 MB**

Tiger 5EMA+ ATX Super Socket 7

Motherboard Includes: Motherboard with 1MB Cache ; cables, manual



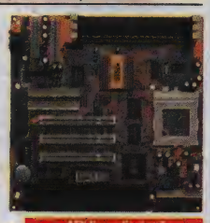
ATX Super Socket 7 with 5 PCI/2 ISA, AGP Video Port & 1MB Cache

Tiger 5EMA+ Motherboard Features At-A-Glance

Form Factor: **ATX** • CPU: **Socket 7** • Bus Speed: **Up to 100 MHz** • AGP Slots: **1** • PCI Slots: **5** • ISA Slots: **2** • Memory: **3DIMM Sockets** • Max Memory: **768MB**

Tiger 598 AT Super Socket 7 with AGP Video

Motherboards Include: Motherboard, cables & manual



ATX Super Socket 7 with 3 PCI/2 ISA, PCI Sound & AGP Video with 8MB On-board

Tiger 598 Motherboard At-A-Glance

Form Factor: **AT** • CPU: **Super Socket 7** • Bus Speed: **Up to 100 MHz** • On-board Video: **8MB AGP** • On-board Audio: **YES** • PCI Slots: **3** • ISA Slots: **2** • Memory: **3 DIMM** • Max Memory: **768 MB**

MOTHERBOARD SPECIFICATIONS / MOTHERBOARD ONLY

Motherboard Design	Processors Supported	Item No.	1-2 units	3-5 units	6+ units
Tiger 571 AT including Wave Table sound and PCI video	AMD Up to K6-300 & K62-266 Intel Pentium up to 233 MMX IBM/Cyrix Up to PR333	MB1-C-1B	$75.99	$70.99	$65.99
Tiger 598 AT including 1MB Cache, Wave Table sound and PCI video	AMD Up to K6-2/450; K6-III/450 Intel Pentium up to 233 MMX IBM/Cyrix Up to PR366	MB1-E-9A	$82.99	$79.99	$75.99
Tiger 599 M-ATX including 1MB Cache, Wave Table sound and PCI video	AMD Up to K6-2/450; K6-III/400 Intel Pentium up to 233 MMX IBM/Cyrix Up to PR366	MB2-599	$82.99	$79.99	$75.99
Tiger 5EMA+ Super Socket 7 1MB Cache	AMD Up to K6-2/450; K6-III-450 Intel Pentium up to 233 MMX IBM/Cyrix up to MII 366	MB1-T-7B	$83.99	$78.99	$74.99
Tiger 763VT ATX Slot 1 w/AGP Port	Celeron up to 466MHz Intel Pentium III up to 500MHz	MB2-763VT	$79.99	$73.99	$69.99
Tiger 741LMRT ATX Slot 1 w/AGP On-board	Celeron up to 466MHz Intel Pentium III up to 500MHz	MB2-741L	$103.99	$98.99	$93.99

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Item #	Description	Units 1-2	3-5	6+
CA1-C-3A	Micro ATX Case 6-Bay 145-W P/S	$44.99	$42.99	$41.99
CA1-C-1A	AT Case 9-Bay 200-W P/S	$46.99	$44.99	$43.99
CA1-C-2B	ATX Case 6-Bay 200-W P/S	$58.99	$54.99	$52.99
CA1-C-4A	ATX Full Tower 9-Bay 300-W P/S	$124.99	$119.99	$115.99

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AMD K6-3 with 3DNow!

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AMD K6-2 Processors	1-2 Units	3-5 Units	6 units or more
#CP2-K62-350 350 3DNow!	$54.99	$49.99	$47.99*
#CP2-K62-400 400 3DNow!	$87.99	$83.99	$78.99*
#CP2-K62-450 450 3DNow!	$104.99	$97.99	$92.99*
#CP2-K62-475 475 3DNow!	$132.99	$126.99	$119.99*
#CP2-K63-400 400 3DNow!	$184.99	$174.99	$164.99*
#CP2-K63-450 450 3DNow!	$239.99	$224.99	$209.99*

Pentium & Cyrix MII

Tiger recommends the AT or a Super Socket 7 motherboard with these processors. From $37.99



Pentium & Cyrix MII	1-2 Units	3-5 Units	6 units or more
#CP2-6X300 MII 300 CPU	$41.99	$39.99	$37.99
#CP2-P233 Pentium 233 CPU	$46.99	$43.99	$39.99



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Item #	Description	1-2	3-5	6+
TC1-6000	Floppy (Beige)	$19.99	$17.99	$15.99
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Item #	Description	1-2	3-5	6+
A216-1000	Socket 7 Fan	$4.99	$3.99	$3.49
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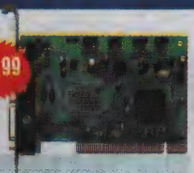
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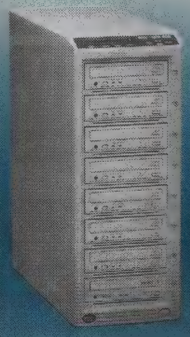


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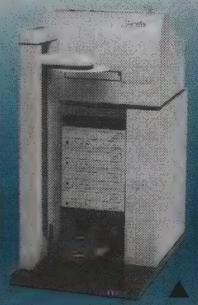
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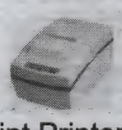
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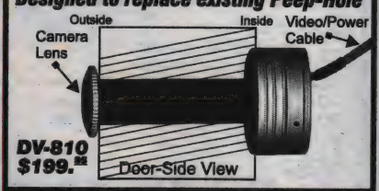
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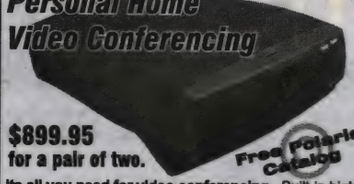
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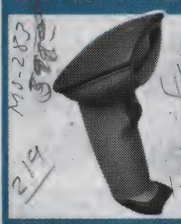
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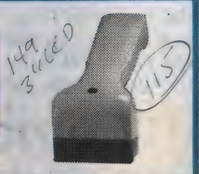
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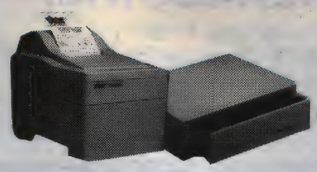
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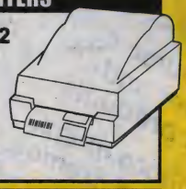
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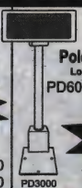
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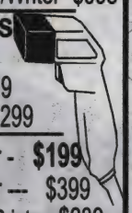
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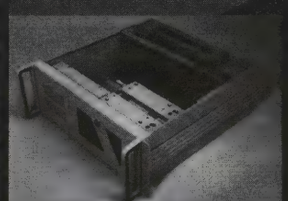
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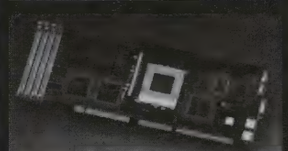
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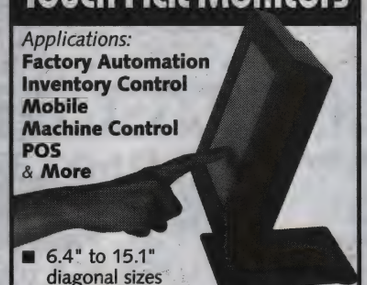
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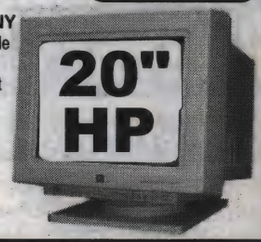
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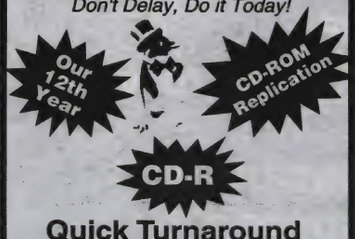
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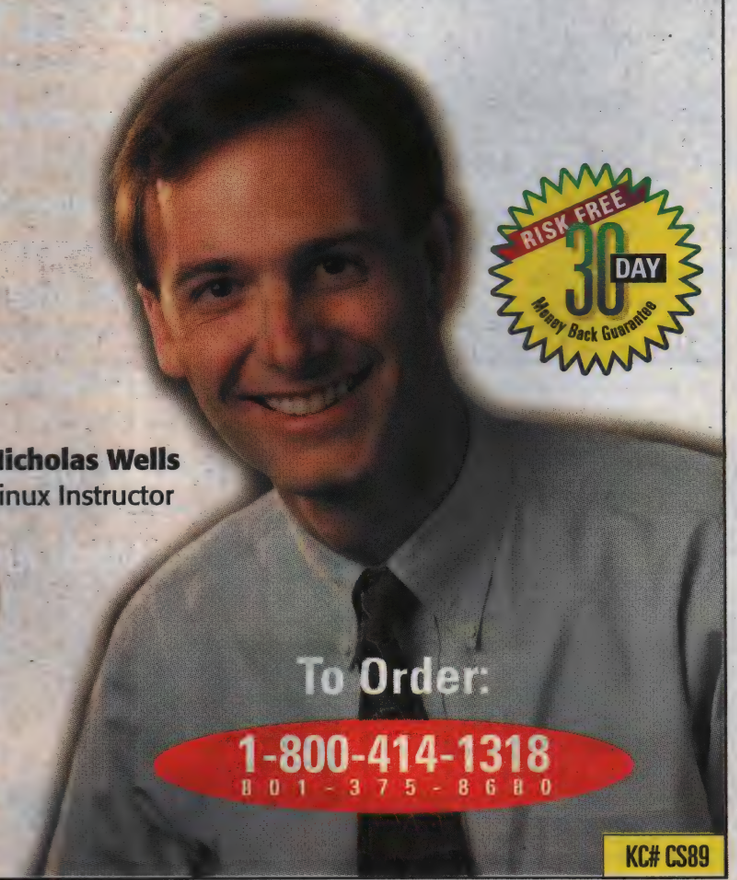
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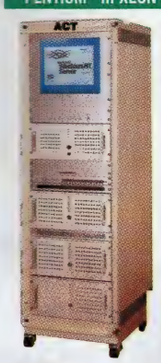


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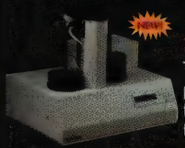
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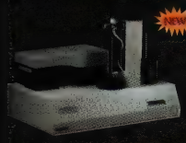


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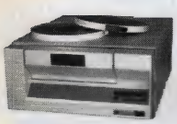
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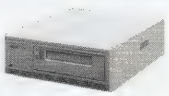
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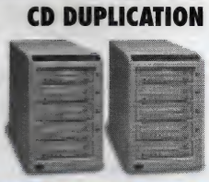
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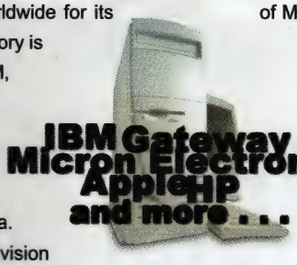
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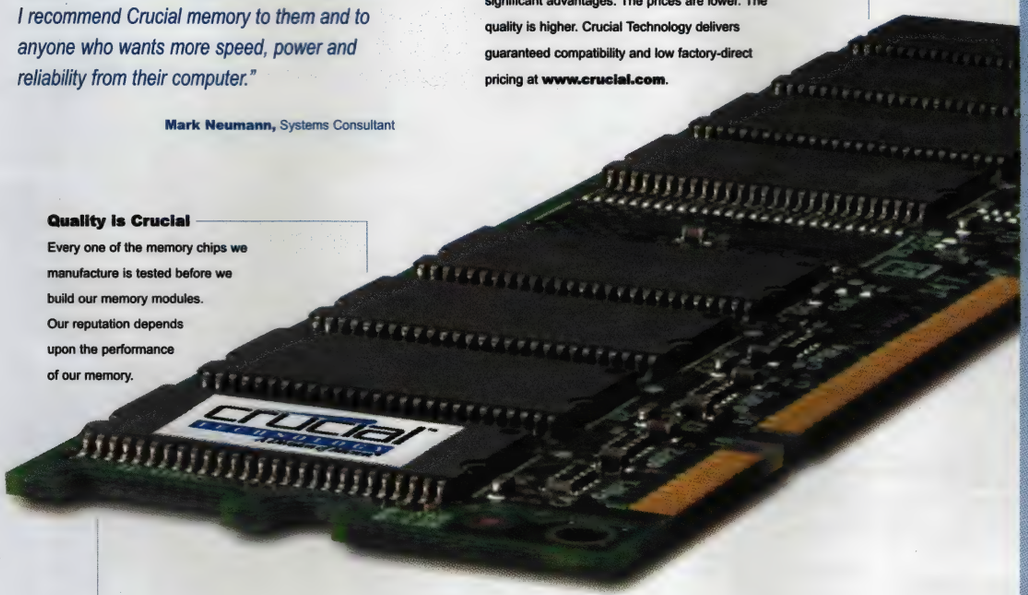
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Presario 4808	$77.89	141.00
Deskpro EN C400	$77.89	157.00
Deskpro EP Model 6400CDS	$77.89	141.00

Micron Electronics	Crucial	Kingston
Millennia 400	$77.89	141.00
Home MPC	$151.98	-
Powerstation P133 with 54Si BIOS	$151.98	-
ClientPro VXE 200/233	$72.19	141.00
Magnum Pro Plus P200	$151.98	-

Gateway	Crucial	Kingston
G6-300	$77.89	141.00
P5-133	$157.68	247.00
GP6-300	$77.89	141.00

IBM	Crucial	Kingston
Aptiva (2140) Model L5H	$77.89	157.00
PC 300GL Series Pentium II Systems (6591)	$77.89	157.00
PC 300PL (6892-50U)	$72.19	154.00

HP	Crucial	Kingston
Pavilion 3260	$77.89	141.00
BRIO Advanced Business Models 8338	$77.89	141.00
Vectra VL Series 8	$72.19	141.00

Apple	Crucial	Kingston
iMAC	$82.64	157.00
Performa 5400/120	$170.99	230.00
Power Mac 6100 Series	$151.98	211.00
Power Mac G3	$77.89	141.00
Power Mac G3 PC100	$72.19	141.00

(All prices were taken from the Web sites of Crucial and Kingston on 5/25/99)

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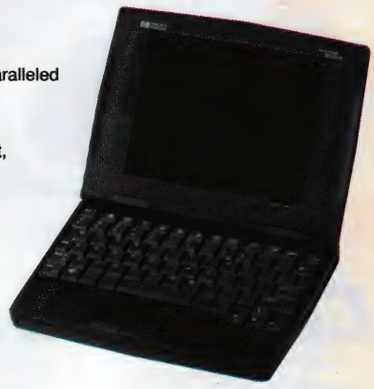
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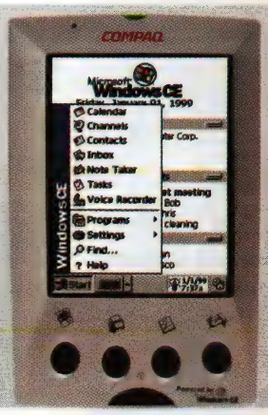
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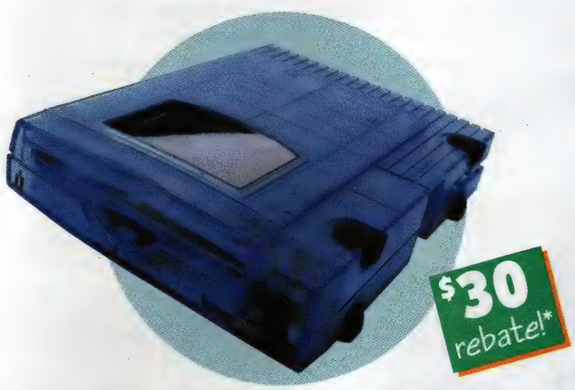
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Reviewed configurations may differ from advertised configurations.

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Common Features: ✔ 512KB Secondary Cache ✔ 3.5" 1.44MB Floppy Drive ✔ US Robotics 56K V.90 Winmodem* w/Telephony ✔ Quantex ATX Mid Tower Case ✔ *New* Internet-ready, Multi-function Keyboard ✔ MS IntelliMouse ✔ 3-Year Limited Warranty ✔ 24/7 Toll-Free Technical Support

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Internal 100MB Zip Drive
6x Max Variable Speed DVD-ROM Drive
Aureal Vortex2 Sound, A3D 2.0 Technology
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MS Windows 98 Second Edition
New Microsoft Office 2000 SBE
Optional Canon MPC-5500 Printer, add $399

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QP6/500 SM-2x

Intel® Pentium® III Processor 500MHz
128MB PC100 SDRAM Memory (768MB Max.)
13GB Ultra ATA Hard Drive
17" Monitor w/CromaClear CRT (16" vis)
3Dfx Voodoo3 2000 2x AGP Graphics w/16MB
6x Max Variable Speed DVD-ROM Drive
Aureal Vortex2 Sound, A3D 2.0 Technology
Altec Lansing ACS-90 Speakers
MS Windows 98 Second Edition
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10GB Ultra ATA Hard Drive
17" Monitor w/CromaClear CRT (16" vis)
3Dfx Voodoo3 2000 2x AGP Graphics w/16MB
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QP6/500 M-4x SE

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19" Monitor w/on-screen display (18.1" vis)
New S3 Savage4 2D/3D AGP Graphics; 32MB
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64MB SDRAM Memory
10GB Ultra ATA Hard Drive
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Intel 2D/3D Graphics Accelerator
40x Max Variable Speed CD-ROM Drive
56K V.90 Telephony Fax/Modem*
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6GB Ultra ATA Hard Drive
15" Digital Monitor (13.8" vis)
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MS Windows 98
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ATI Rage Lt Pro 3D AGP Video w/8MB
MS Windows 98
New Corel WordPerfect Office 2000

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Business lease:$72/Mo., 36 Mos. $0 Money Down
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T-SERIES "MOBILE WARRIOR" NOTEBOOK

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Intel® Pentium® II Processor 366MHz
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14.1" XGA Active Matrix Display
128MB SDRAM Memory
6GB Ultra ATA Hard Drive
Modular 4x Max Variable Speed DVD-ROM Drive
56K V.90 Fax/Modem*
NeoMagic NMG5 128-bit AGP Video
Quantex Carrying Case
MS Windows 98
New Microsoft Office 2000 SBE

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Business lease:$90/Mo., 36 Mos. $0 Money Down
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Intel® Pentium® II Processor 366MHz
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Modular 24x Max Variable Speed CD-ROM Drive
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Quantex Carrying Case
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INTRODUCING

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Modular 24x Max Variable Speed CD-ROM Drive
NeoMagic NMG5 128-bit AGP Video
Integrated Personal Touchpad
Quantex Carrying Case
MS Windows 98
New Corel WordPerfect Office 2000

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Business lease:$61/Mo., 36 Mos. $0 Money Down
Q-QUOTE NUMBER: csg08a03

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Intel® Celeron™ Processor 333MHz
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32MB SDRAM Memory
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Modular 24x Max Variable Speed CD-ROM Drive
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intel inside
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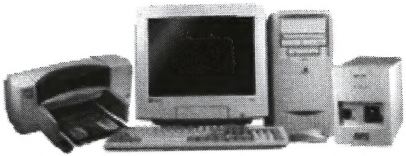
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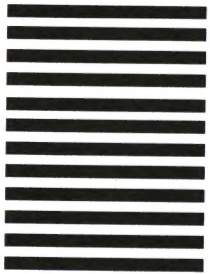
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